FORMER BELLOFRAM AND HIGH VOLTAGE SITES
BURLINGTON, MASSACHUSETTS

POST-TEMPORARY SOLUTION STATUS REPORT
JANUARY 1, 2026 – JUNE 33, 2026

RTN: 3-0981

PREPARED FOR:
3 VDG OWNER LLC
1900 CROWN COLONY DRIVE, SUITE 405
QUINCY, MA 02169

PREPARED BY:

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AUGUST 26, 2026

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LIST OF ACRONYMS

1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
cis-1,2-DCE	cis-1,2-dichloroethene
COCs	Chemicals of Concern
CSM	Conceptual Site Model
DOT	Department of Transportation
DMR	Discharge Monitoring Report
ft	feet
GAC	Granular Activated Carbon
gpm	gallons per minute
HVEC	High Voltage Engineering Corporation
ISCO	In-situ Chemical Oxidation
lb	pound
LTM	Long-Term Monitoring
MassDEP	Massachusetts Department of Environmental Protection
MCP	Massachusetts Contingency Plan
MNA	Monitored Natural Attenuation
NGVD	National Geodetic Vertical Datum
NAPL	Non-Aqueous Phase Liquid
NPDES	National Pollutant Discharge Elimination System
PCBs	Polychlorinated biphenyls
PCE	tetrachloroethene
ppb V/V	parts per billion by volume
PWS	Public Water Supply
RAM	Release Abatement Measure
RAO	Response Action Outcome
RPD	relative percent difference
RGP	Remediation General Permit
RTN	Release Tracking Number
SOP	Standard Operating Procedure
TCE	trichloroethene
TPH	Total petroleum hydrocarbons
trans-1,2-DCE	trans-1,2-dichloroethene
Trend Test	Mann-Kendall Trend Test
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound
µg/L	micrograms per liter

1.0 INTRODUCTION

This report is submitted to the Massachusetts Department of Environmental Protection (MassDEP) and the Town of Burlington Board of Health to document the status of the operation and maintenance conducted at the former High Voltage Engineering Corporation (HVEC) and former Bellofram Sites, Release Tracking Number (RTN) 3-0981, in Burlington, Massachusetts for the period January 1, 2026, to June 30, 2026.

1.1 PROPERTY DESCRIPTION

The former Bellofram and HVEC sites are located in Burlington, Massachusetts, approximately 10 miles northwest of Boston (see **Figure 1-1**). Together, the sites are bordered on the north by Route 128, to the west by the dataCon Property and to the south by Blanchard Road. These former manufacturing facilities have been redeveloped for office use and are currently owned by 3 VDG OWNER LLC. Access to the sites is from Van de Graaff Drive. Approximate property boundaries of the former and current property divisions are shown on **Figure 1-2**. The Site is located within the Vine Brook watershed, and a portion of the site is within the Zone II for the Vine Brook well field which supplies water to the Town of Burlington (**Figure 1-2**).

1.2 REMEDIAL HISTORY

Groundwater beneath the former HVEC and the former Bellofram properties has been impacted by the release of the following volatile and semi-volatile organic compounds (VOC/SVOC):

- tetrachloroethylene (PCE),
- trichloroethylene (TCE),
- 1,1,1 trichloroethane (1,1,1-TCA),
- 1,1 dichloroethylene (1,1-DCE),
- 1,1 dichloroethane (1,1-DCA),
- cis-1,2-dichloroethylene (cis-1,2-DCE),
- trans-1,2-dichloroethylene (trans-1,2-DCE),
- 1,2-dichloroethane (1,2-DCA),
- 1,4-dioxane, and
- vinyl chloride (VC).

Prior to 2002 the two sites had separate groundwater extraction and treatment systems to remedy the groundwater conditions. The two systems were combined and expanded in June 2002. The former HVEC system began continuous operation in September 1994, and the former Bellofram system began continuous operation in May 1995. At the HVEC site, groundwater was pumped from four extraction wells at a combined average rate of approximately 15 gallons per minute (gpm). The water was treated by air-stripping and aqueous-phase granular activated carbon (GAC). Vapor-phase GAC was used to treat the air-stripper off-gas. Treated water was discharged to a retention pond adjacent to South Bedford Street, which is outside of the Vine Brook watershed. Between January 1995 and January 2002 (the date the HVEC treatment system was shut down), a portion of the HVEC treated water was re-injected up-gradient of extraction well PW-503. At the former Bellofram site, groundwater was pumped from one extraction well at an average rate of 16.8 gpm. The water was treated using air stripping. The air stripper off-gas was treated with GAC. Groundwater was discharged to a small wetland, located on the former Bellofram property, in the Vine Brook watershed.

In response to MassDEP concerns with the concentrations of chemicals of concern (COCs) detected in groundwater collected from beneath the western portion of the HVEC site, near the Zone II boundary of the Vine Brook well field, and the effectiveness of the extraction system at preventing off-site migration of impacted groundwater, a technical assessment and conceptual plan for remedial system enhancements was prepared in 1998 (HSI GeoTrans, 1998). On December 7, 1998, the MassDEP conditionally approved a plan for remedial system enhancements (MassDEP, 1998) which included installation of additional monitoring and extraction wells, and construction of a combined groundwater treatment system. Construction of the combined treatment system began in January 2002, and it began operation on June 17, 2002. The treatment system consists of a low-profile air stripper with a design flow rate of 65 gpm. The vapor-phase VOCs were treated by a GAC system through May 2019. In February 2019, Tetra Tech submitted an LSP opinion detailing an MCP Method 3 Risk Characterization regarding the need for system off-gas controls. The findings concluded that that “No Significant Risk” of harm to human health, public welfare, safety or the environment results from the untreated off-gas emissions from the air stripper under current site configuration and neighboring land uses. The vapor-phase treatment component was removed from the system in May 2019. **Figure 1-3** is a process flow diagram of

the treatment system. Currently, the following eight extraction wells pump impacted groundwater to the treatment system for treatment:

ERM-14R	MW/EW-N	MW-604
JTB-402	MW/EW-S	MW-605
JTB-404	PW-503	

Extraction well JTB-405 shut down in early April 2016, and in an email dated May 17, 2016, MassDEP approved the request to leave JTB-405 off-line permanently. **Figure 1-4** shows the locations of the extraction wells.

On June 4, 2004, an assessment of the new combined remedial system and a Class C Remedial Action Outcome (RAO) was submitted to MassDEP (GeoTrans, 2004). The assessment concluded that the operation of the enhanced combined groundwater extraction system has created a zone of capture that will inhibit future migration of impacted groundwater into the Zone II of the Vine Brook well field.

Treated groundwater is discharged into a wetland located on the Oracle property that is a tributary of Vine Brook (**Figure 1-4)**. The discharge is authorized by the United States Environmental Protection Agency (USEPA) under the Remediation General Permit (RGP) (Authorization # MAG910026). Several changes to the RGP have been approved of by USEPA since it was issued; the May 10, 2011, April 4, 2012, April 30, 2015, April 27, 2018, October 28, 2023 RGPs are included in **Appendix A**.

1.3 REGULATORY STATUS

Both the former HVEC and Bellofram sites are regulated under the Massachusetts Contingency Plan (MCP). A Class C RAO Statement was filed for the two sites on June 4, 2004. With the April 24, 2014, revision of the MCP, the Class C RAO terminology has been replaced with the term Temporary Solution. The HVEC response actions are being conducted under a 2009 Consent Order with the MassDEP.

The RTNs for the former HVEC and former Bellofram Sites, RTN 3-0981 and 3-0669, were officially linked in July 2009 with a Tier Classification Form. The former HVEC Site, RTN 3 0981, is listed as the primary RTN for the Site. In addition, a permit transfer was completed in November 2009, transferring the Tier 1B Permit (#83101) for RTN 3-0981, assigning American Landmark III as the Permit holder. A consent order between the MassDEP and American Landmark III was executed on

September 4, 2009. Due to a change in property ownership in August 2021, a permit transfer was completed transferring the Tier 1B Permit (#83101) for RTN 3-0981, assigning 3 VDG Owner, LLC as the permit holder. The consent order outlines MCP deadlines going forward.

Additionally, a 120-day release notification was made to MassDEP on June 8, 2021, for PFAS compounds in excess of the GW-1 criteria. Subsequently MassDEP issued a Notice of Responsibility (NOR) on July 8, 2021, issuing RTN 3-36880 to the PFAS release. A Phase I Report and Tier Classification was prepared for this release and submitted to MassDEP on June 8, 2022. The PFAS release is being addressed under the separate RTN; however, recent data collected for the PFAS release is discussed in this report.

1.3.1 Groundwater Remedial Action Objectives

The remedial action objectives for impacted groundwater at the former Bellofram and HVEC sites are to:

1. Prevent further migration of impacted groundwater from the two sites;
2. Improve groundwater quality in the unconsolidated deposits and shallow bedrock in the vicinity of the two sites to cleanup levels; and
3. Prevent public contact with impacted groundwater at concentrations above the cleanup levels.

To monitor the progress towards the remedial action objectives for the two sites, a Long-Term Monitoring Plan (LTM) was prepared in August 2002 (GeoTrans, 2002). This plan has been modified periodically. The aspects of the current Long-Term Monitoring Plan related to treatment system monitoring, summarized in **Table 1-1**, include the following:

- Monthly treatment system influent and effluent water sampling to evaluate mass removal rates, treatment system efficiency, and determine whether discharge standards are met. Samples include a trip blank for quality assurance/quality control.
- Semi-annual water level measurements in each available monitoring and extraction well.
- Monthly extraction well flow rate and totalizer readings, and water level measurements.
- Weekly treatment system influent flow rate and totalizer readings.
- Submittal of semi-annual status reports to MassDEP.

- Monthly discharge monitoring reports (DMRs) filed electronically with USEPA. The monthly reports summarize treatment system inspections, and influent and effluent water quality. Monthly reports are submitted to the USEPA electronically via the NetDMR portal.

Note that as part of the September 2024 Remediation General Permit the required monthly influent and effluent wastewater sampling has been modified and has included multiple new parameters including the effluent analysis of PFAS6 concentrations.

1.3.2 OTHER REQUIREMENTS

The MassDEP-approved Zone II boundary for the Burlington public supply wells in the Vine Brook aquifer is located close to the western boundary of the former Bellofram and HVEC and Tennis 128 properties, now Oracle property. GW-1 concentration standards are applicable within MassDEP-approved Zone II areas. The Zone II boundary and property ownership information are shown on **Figure 1-2**.

In June 2025, Tetra Tech submitted a Periodic Review opinion for the Temporary Solution for the Former HVEC and Bellofram sites (Tetra Tech, 2019), fulfilling the requirements of 310.CMR40.1050(4)(b) of the MCP. The report evaluated the remedy for the Site over the period of June 2019 to June 2024. The findings of the review indicate that the remedy for groundwater is meeting the remedial goals, and no near-term permanent solution is available for the Site.

2.0 GROUNDWATER FLOW AND CAPTURE

2.1 GROUNDWATER LEVEL MONITORING

During the period of January 1, 2026 to June 30, 2026, extraction well water levels were measured monthly. In addition, to evaluate the horizontal and vertical extent of the combined capture zone of the eight extraction wells, water levels were last measured at all monitoring wells on December 1, 2025, with supplemental measurements being taken on March 18, 2026. All extraction wells were operating during the site-wide water level round.

Water level measurements are listed in **Table 2-1**. Water level elevation data were used to prepare potentiometric maps (**Figures 2-1** and **2-2**). The groundwater flow direction is generally from northeast to southwest across the sites as shown in **Figures 2-1** and **2-2**.

The bedrock potentiometric map, **Figure 2-2**, shows the combined capture zone of the operating groundwater extraction wells. **Figures 2-1** and **2-2** show that the combined capture zone, based on the December 1, 2025, and March 18, 2026 water level measurements, closely approximates previous integrated hydraulic capture zone extent in the bedrock.

3.0 SUMMARY OF TREATMENT SYSTEM ACTIVITIES

Groundwater at the former High Voltage and Bellofram sites is pumped from eight extraction wells. The water pumped from these wells is conveyed to the treatment system through underground pipelines. The treatment system consists of the following components:

- System controls with auto-dialer;
- Particulate filter;
- Air stripper;
- Blower;
- Carbonate sequestering agent with feed pump;
- Sump pump; and
- Activated Carbon PFAS filtration vessels[1]

[1] Part of PFAS Pilot system added in April/May 2025

3.1 TREATMENT SYSTEM PERFORMANCE

Treatment system removal efficiency is monitored by analyzing monthly samples collected from the groundwater influent to and effluent from the treatment system. Influent concentrations of TCE, 1,2-DCE, PCE, VC, 1,1,1-TCA, and total VOC from samples collected between January 2026 and June 2026 are shown in **Table 3-1**. An evaluation of groundwater concentrations influent to the combined treatment system shows that concentrations of PCE, TCE, 1,1,1-TCA and 1,1-DCE, the four VOCs detected at the highest concentrations in the treatment system influent, have declined steadily since the combined extraction system began operation on June 17, 2002. **Figure 3-1** is a semi-logarithmic time versus PCE, TCE, 1,1,1-TCA and 1,1-DCE concentration plot of the treatment system influent since June 2002. **Figure 3-1** shows that the influent concentrations of PCE, 1,1,1-TCA, TCE and 1,1-DCE have decreased considerably since start-up. Concentration changes are as follows:

VOC	*2002 Influent Concentration*	*June 2026 Influent Concentration*
PCE	1,180 µg/L	175 µg/L
1,1,1-TCA	1,460 µg/L	56.3 µg/L
TCE	304 µg/L	5.2 µg/L
1,1-DCE	86 µg/L	20.8 µg/L

Trend lines included for each VOC on **Figure 3-1** also show the steady decline in influent concentrations since start-up of the combined system. These data demonstrate that VOC concentrations in the source areas are declining. The results from the treatment system effluent VOC samples collected between January 6, 2026, and June 17, 2026, are summarized in **Table 3-2**.

Samples collected from groundwater influent to and effluent from the treatment system were analyzed for 1,4-dioxane in monthly samples between January and June of 2026. As summarized in **Table 3-3**, the 1,4-dioxane concentrations from the treatment system influent and effluent were all below the limit of 200 µg/l. There were two estimated "J values" (above the method detection limit and below the reporting limit) in both, the January influent and effluent samples. Additionally, there was a detection in the effluent of 0.40 µg/l in January, and an influent detection of 0.35 µg/l in May. The treatment system was not initially designed to remove 1,4-dioxane as it was built in 2002, prior to the emergence of 1,4-dioxane as a contaminant of

concern for this site due to recent changes in MCP Method 1 standards for this compound. However, the recent addition of the Granular Activated Carbon (GAC) pilot treatment for PFAS, is effectively removing the 1,4-Dioxane. The 2016 National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) provides a Technology Based Effluent Limit (TBEL) of 200 µg/l for 1,4-dioxane.

Analytical Laboratory Reports for the influent and effluent samples are included in **Appendix B**. During this period of operation, the effluent samples show regular exceedances of Chloride, and Total Dissolved Solids. This is an ongoing issue that the Site faces. Recently steps have been taken to reduce both TDS and Chloride throughout the site by eliminating the use of ice melt products where possible throughout the extensive parking areas.

In March of 2025 a PFAS sequestering carbon filtration system was added to the existing groundwater treatment system. This pilot system was installed with two carbon filter units in series as shown in **Figure 1-3**. The PFAS treatment system was proven to be effective immediately upon installation into the larger system, resulting in non-detectable levels of PFAS6 in the monthly effluent samples beginning in April of 2025 **Appendix C**. Monthly sampling continues to show decreased levels of PFAS6 in the Effluent as compared to before the system was installed; however, in June of 2025 PFAS6 results rose to detectable levels showing a PFAS6 Sum of 0.0154 ug/L. The results of monthly PFAS 6 monitoring in the effluent as well as other sampling locations within the treatment system are summarized in **Table 3-7**. In April of 2026 the decision was made to change out the GAC filter media in the PFAS removal vessels. This immediately returned the effluent PFAS concentrations down to an undetectable level as shown in the data from the May 20, 2026, monthly sampling results.

3.2 VOC MASS REMOVAL

Table 3-5 presents VOC mass removal calculations. The calculation was based on influent and effluent concentrations of detected VOCs and the total volume of groundwater treated during the period. Values reported as below the reporting limit are assumed to be zero in all calculations. The following equation was used to calculate the mass removed:

$$m = V * C * CF$$

where:

m = mass removed (pounds)

V = volume of water treated (gallons); read volume removed from the treatment system influent totalizer

C = reduction in concentration (µg/L) = Influent concentration (µg/L) – Effluent concentration (µg/L)

CF = units conversion factor ($8.35x10^{-9}$ [lb*L / gal*µg])

3.3 TREATMENT SYSTEM OPERATION AND MAINTENANCE

A summary of treatment system performance, and operation and maintenance activities for January 1, 2026, to June 30, 2026, is provided in **Table 3-6**. The summary includes planned and unplanned system shutdowns as well as an explanation for each shutdown. There was one major planned shutdown of the treatment system during this period not including the blower and filter bag change-outs noted on **Table 3-6**, which last only a matter of a few minutes per event. The planned shutdown of the treatment system was for the change out of the GAC filter media. While the shutdown for the replacement of the PFAS filter media was underway, the electric blower motor was also replaced. Based on treatment system influent and effluent concentrations and flow rates, 17 pounds of VOCs were removed by the extraction wells from January 1, 2026 to June 30, 2026. Table 3-4 presents the mass of VOCs removed in percentages and pounds from January to June 2026. Sixty-five percent of the VOC mass removed was PCE (10.9 pounds). The other major VOCs removed were 1,1,1-TCA (4.1 pounds), TCE (0.3 pounds), 1,1-DCE (1.1 pounds), and 1,1-DCA (0.2 pounds). The total VOC mass removed by the former HVEC and Bellofram systems and the combined system throughout its operation is 4,943 pounds. **Table 3-5** summarizes the VOC mass removal since groundwater extraction began.

3.4 EXTRACTION WELL OPERATION AND MAINTENANCE

Extraction wells were inspected and water level measurements were collected monthly. During the period January 1, 2026, through June 30, 2026, no unexpected maintenance was required on any of the extraction wells.

4.0 GROUNDWATER SAMPLING

This section summarizes the groundwater sampling performed during the current monitoring period (January through June 2026).

4.1 GROUNDWATER VOC AND 1,4-DIOXANE SAMPLING AND RESULTS

No groundwater VOC or 1,4-Dioxane Sampling occurred within the timeframe covered in this status report, January to June 2026. Previous VOC and 1,4-Dioxane results are discussed within the July to December 2025 status report. Historic data collected during the December 2025 sampling event are presented in **Table 4-1.**

4.2 GROUNDWATER PFAS SAMPLING AND RESULTS

In early 2026 Tetra Tech installed an additional seven monitoring wells, two on the project site, and four on the surrounding properties. These wells were installed to study the extent of PFAS migration in the area at large, their locations are shown in **Figure 2-1.** In March of 2026 Tetra Tech conducted an additional round of PFAS groundwater monitoring at six of the seven new wells, with the seventh being sampled in May. The seven sampled wells were MW-2520, MW-2521, MW-2524, MW-2525, MW-2526A, MW-2526B, and MW-2522 which was sampled later. Samples were analyzed for PFAS18 using EPA Method 1633. For quality assurance/quality control purposes, field reagent blank samples (one per day) and one field duplicate sample were also submitted along with the groundwater samples. There were no detections in any of the field reagent blanks.

During the March 2026 monitoring round, all monitoring well samples were collected via USEPA Low-Flow Method using an inline flow-thru cell (YSI Pro-DSS multi-parameter water quality monitoring system or equivalent) used to provide measurements of field parameters including conductivity, pH, temperature, oxidation reduction potential, dissolved oxygen, and turbidity. For each well, the tubing intake was located at the approximate midpoint of the well screen. Groundwater was purged with a surface-mounted peristaltic pump and stainless-steel tubing at a rate approximately 200 milliliters per minute (mL/min) until stabilization of field chemistry measurements: conductivity (3% variation); pH (0.1 standard unit variation); temperature (3% variation); oxidation reduction potential (10 millivolt (mV) variation); dissolved oxygen (3% variation); and turbidity (10% variation) or after approximately 30 minutes. Groundwater field parameter measurements were recorded on field forms. Once these parameters stabilized, the

samples were collected directly from the pump discharge tubing before the flow-thru cell. Dedicated tubing was used at each sampling location. Groundwater samples were recorded on Chain of Custody Forms and preserved on ice in sealed coolers, prior to shipping via Federal Express to the SGS Dayton New Jersey Lab.

The results of the 2021, 2024, 2025, and 2026 groundwater well PFAS samples are summarized in **Table 4-2, 4-3, 4-4** and **4-5,** respectively. Laboratory reports are included in **Appendix E.**

The following summarizes the findings from groundwater sampling and laboratory analysis:

Since the initial PFAS sampling round was conducted in June 2021, four additional sampling rounds were conducted in June 2024, June 2025, December 2025, and March 2026. The results from sampling conducted in 2026 follow similar trends as highlighted in the previous section. Note that all samples were above the 20 ng/L GW-1 standard. **Figure 4-1** visually depicts the data sampled during the sampling events.

- Former HVEC Onsite Wells – The two new wells installed on the former HVEC property are MW-2526A, and MW-2526B. These wells were installed as a couplet, MW-2526A being an overburden well, and MW-2526B being a bedrock well, within ten feet of one another. They are located along the Northern most edge of the parking lot at 3 Van De Graaff Drive. MW-2526A extends to a depth of 22.5 feet bgs, terminating at the top of the bedrock layer in the area. MW-2526B was measured to a depth of 50 feet bgs, extending 27.5 feet into bedrock. The March 18, 2026, PFAS6 results at this couplet show a striking difference, MW-2526A was shown to have a PFAS6 concentration of 1,058.3 ng/L, while MW-2526B showed no detections at all, 0 ng/L.
- Mary Cummings Park Offsite Wells – Three of the seven newly installed monitoring wells sampled during the 2026 sampling events are overburden wells located within Mary Cummings Park, across Blanchard from the Site. These wells, MW-2520, MW-2521, and MW-2524, as shown in **Figure 2-1** are staggered distances away and downgradient of the suspected historic sources. These three wells vary in PFAS6 concentration. MW-2520 is the closest to the site, in the middle of the park's frontage along Blanchard Road. MW-2520 reaches a depth of 25 feet bgs, however, it has the highest ground surface elevation of any of the wells in the project Site area. MW-2521 is located further from Blanchard Road and therefore the Site, however, it is more downgradient from the site even though it

only measures 17 feet bgs. MW-2524 is located farthest into the interior of the park and reaches a depth of 18 feet bgs. The March 2026 PFAS sampling results show that MW-2520, MW-2521, and MW-2524 had concentrations of 34, 70.3, and 6.2 ng/L respectively.

- Muller Road Offsite Well – The monitoring well farthest-a-field from the project site is MW-2522. It is an overburden well which reaches a depth of approximately 55 feet bgs. MW-2522 was measured to have a PFAS6 concentration of 6.3 ng/L when it was sampled in May of 2026.
- Rounder Way Offsite Well – One additional newly installed well, located further to the south, on Rounder Way, is MW-2525. It is an overburden well that only reaches a depth of 13 feet bgs. MW-2525 is situated within an office park surrounded by wetlands, adjacent to Rt. 128, and downgradient of the project Site. The results of the March 2026 sampling event show that MW-2525 had a PFAS6 concentration of 62.7 ng/L.

Overall, the concentrations of PFAS6 at the site show that PFAS6 concentrations are generally highest in the Northwest corner as well as within the extraction wells throughout the subject site, while the monitoring wells show higher concentrations within the deeper bedrock wells and tend to increase as you move downgradient of the suspected historic sources. This feature of the pumping well concentrations is a good indication that the pumping wells are properly located to target the PFAS sources onsite. The highest concentrations of PFAS6 measured on the Site are both located near the Northern edge of the project site, along or adjacent to Rt. 128. These two locations, MW-2517 and MW-2526A show concentrations of 1,315 and 1,058.3 ng/L respectively.

5.0 RECOMMENDATIONS

The following sections describe the recommendations for continued evaluation and monitoring at the Site.

5.1 PFAS INVESTIGATIONS

Tetra Tech is continuing to investigate the sources and extent of PFAS in wells at the Site. Potential sources have been identified, and the previously proposed scope has been augmented to evaluate other potential sources and better capture the extent of the PFAS plume. A PFAS treatment system has been installed in line with the current treatment system and was submitted as a NOC in the spring of 2025. A Phase IV Modification was submitted prior to the implementation of the

treatment system. For now, the PFAS RTN is addressed separately, but data will continue to be provided in this status report moving forward. Eventually the two RTN's may be merged for convenience once the Phase III report is submitted.

5.2 GROUNDWATER MONITORING

Based on current Site conditions, in order to continue to monitor groundwater concentration trends, particularly in the area downgradient of the hydraulic capture zone, the following groundwater monitoring is recommended for future monitoring:

- Annual groundwater sampling for VOC and 1,4-dioxane analysis from:
  - Monitoring wells B-105B, B-602, CES-11D, ERM-12M, MW-203A, MW-203B, MW-204A and MW-204B;
  - Extraction wells MW/EW-S and MW-605;

Table 5-1 provides a summary of the groundwater VOC sampling plan. The next annual groundwater sampling event will be a biennial sampling event and will take place in May-June of 2026. The monitoring network will continue to be evaluated on a regular basis and updated as conditions warrant.

5.3 EVALUATION OF INFLUENT WATER DESCALING TREATMENT

Tetra Tech has implemented a sequestering agent or water softening system to prevent the continued encrustation of this material on vital components of the treatment system. The product, Redux 390 has been performing well for the past 5 years. At a 40 GPM maximum flow rate, we are currently using a dose of Redux 390 at 40 ppm. At this dosage approximately 19.0 lbs. or 2.0 gallons of chemical are consumed per day. Since implementation in 2019, roughly 96, 55-gallon drums have been utilized. EPA has incorporated the Redux 390 sequestering into the new permit.

Tetra Tech is conducting continuing evaluations of the sequestering agent, especially in light of recent GAC fouling that has occurred with the pilot treatment system.

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TABLES

Table 1-1. Long-Term Monitoring Related to Treatment System, Former Bellofram and HVEC Sites, Burlington, Massachusetts

Task	Frequency
Water quality sampling	
Influent	Monthly[1]
Effluent	Monthly[1]
Air quality sampling	
Influent and effluent of vapor-phase GAC	Removed from Monitoring[3]
Water level measurements	
Extraction wells	Monthly
Monitoring wells	Semi-annually (all)
Flow rate measurements	
Treatment system	Weekly
Extraction wells	Monthly
Discharge area inspection	
Inspect discharge area	Quarterly
Reporting frequency	
RGP Discharge Monitoring Report	Monthly
Remedial reports to MADEP	Semi-annually[2]

Notes:

[1] Since October 9, 2005, discharge has been authorized by the Remediation General Permit (RGP). Monthly data is available at the site. A report is submitted to EPA Region I if there is an exceedance of groundwater quality criteria. The RGP was renewed May 10, 2011, revised on April 14, 2012 to reduce influent and effluent treatment system water quality sampling to bi-monthly (every other month), and revised April 30, 2015 to eliminate bi-monthly PCB and TPH analysis. Under the renewed RGP issued October 28, 2023 sampling of the influent and effluent treatment system water quality has been returned to monthly until such time that a Notice of Change has been accepted.

[2] To be filed with MassDEP by February 26th and August 26th each year.

[3] The GAC vapor-phase treatment component has been removed from service and vapor-phase monitoring will no longer be conducted.

Table 2-1 - 2026 Water Level Measurements

BEDROCK WELLS										
LOCATION	Measuring Point Elevation	Top of Screen Elevation	Bottom of Screen Elevation	12/01/2025	1/06/2026	2/25/2026	3/18/2026	4/14/2026	5/18/2026	6/17/2026
B-602	163.17	125.8	115.8	161.87	NM	NM	NM	NM	NM	NM
CES-10D	161.11	127.9	117.9	157.21	NM	NM	NM	NM	NM	NM
CES-12D	161.38	134	124	151.08	NM	NM	NM	NM	NM	NM
ERM-12D	159.38	7.93	17.93	148.78	NM	NM	NM	NM	NM	NM
ERM-14D	209.515	179.65	109.65	196.115	NM	NM	NM	NM	NM	NM
ERM-14R	208.285	165.72	125.72	151.8	151.6	151.4	151.54	151.3	151.8	NM
GCB-36A(R)	213.905	170.3	165.3	194.905	NM	NM	NM	NM	NM	NM
GZ/DC-5D	189.46	154.69	134.69	180.86	NM	NM	NM	NM	NM	NM
JTB-402	222.215	188.8	118.2	191.7	190.6	190.3	190.35	190.7	191.5	NM
JTB-404	213.515	170.56	107.46	192.6	184.4	NM	NM	NM	NM	NM
MW/EW-C	179.55	130.94	110.94	175.0	NM	NM	NM	NM	NM	NM
MW/EW-N	207.045	135.65	95.62	152.2	153.4	152.6	152.16	153.1	153.3	NM
MW/EW-S	186.39	160.81	50.81	175.4	175.1	174.8	174.84	175.0	175.4	NM
MW-102A	222.595	107.65	97.65	198.6	NM	NM	NM	NM	NM	NM
MW-102B	222.565	157.55	147.55	198.9	NM	NM	NM	NM	NM	NM
MW-104A	214.43	104.91	94.91	195.5	NM	NM	NM	NM	NM	NM
MW-104B	214.405	156.01	146.01	192.4	NM	NM	NM	NM	NM	NM
MW-105A	223.94	179.14	168.64	201.5	NM	NM	NM	NM	NM	NM
MW-109(R)	210.19	165.59	155.59	NM	NM	NM	NM	NM	NM	NM
MW-110(R)	206.765	151.12	141.12	175.3	NM	NM	NM	NM	NM	NM
MW-111	219.7	31.7	9.7	200.4	NM	NM	NM	NM	NM	NM
MW-112	219.7	111.7	89.7	200.9	NM	NM	NM	NM	NM	NM
MW-113	219.7	174.7	154.7	201.0	NM	NM	NM	NM	NM	NM
MW-114	219	171	151	199.9	NM	NM	NM	NM	NM	NM
MW-201A	182.39	118.84	103.84	181.6	NM	NM	NM	NM	NM	NM
MW-201B	182.52	153.84	143.84	178.8	NM	NM	NM	NM	NM	NM
MW-202A	169.2	120.2	110.2	156.0	NM	NM	NM	NM	NM	NM
MW-202B	169.26	156.7	147.2	163.5	NM	NM	NM	NM	NM	NM
MW-203A	173.12	118.41	108.41	159.4	NM	NM	NM	NM	NM	NM
MW-203B	174.365	149.91	139.91	166.2	NM	NM	NM	NM	NM	NM
MW-204A	158.375	83.09	73.09	150.1	NM	NM	NM	NM	NM	NM
MW-204B	158.38	112.49	104.49	149.9	NM	NM	NM	NM	NM	NM
MW-504	215.285	45.58	25.58	196.6	NM	NM	NM	NM	NM	NM
MW-505A	206.29	110.36	95.36	188.6	NM	NM	NM	NM	NM	NM
MW-507	213.45	168.9	126.9	196.0	NM	NM	NM	NM	NM	NM
MW-509(R)	214.915	-66.75	-94.75	199.9	NM	NM	NM	NM	NM	NM
MW-601(R)	209.785	112.09	92.09	191.4	NM	NM	NM	NM	NM	NM
MW-603	207.24	151.92	131.92	190.2	NM	NM	NM	NM	NM	NM
MW-604	188.51	Unknown	79.5	143.7	143.4	143.2	143.32	143.3	143.7	NM
MW-605	181.14	Unknown	76.26	134.2	134.2	133.9	134.16	134.2	134.3	NM
PW-503	226.56	191.56	114.56	193.4	192.9	192.6	192.72	193.1	193.4	NM
MW-2526B	231.73	201.73	181.73	NM	NM	NM	216.33	NM	NM	NM
MW-2514	225.85	205.85	195.85	NM	NM	NM	213.02	NM	NM	NM
MW-2516	224.31	206.31	196.31	NM	NM	NM	220.91	NM	NM	NM
MW-2517	234.31	221.31	211.31	NM	NM	NM	229.04	NM	NM	NM
UNCONSOLIDATED DEPOSIT MONITORING WELLS										
LOCATION	Measuring Point Elevation	Top of Screen Elevation	Bottom of Screen Elevation	12/01/2025	1/06/2026	2/25/2026	3/18/2026	4/14/2026	5/18/2026	6/17/2026
B-105B	161.55	154.30	144.30	150.05	NM	NM	NM	NM	NM	NM
B-106	209.88	203.72	193.72	197.08	NM	NM	NM	NM	NM	NM
B-107	210.255	199.58	189.58	198.655	NM	NM	NM	NM	NM	NM
ERM-12S	159.46	133.17	128.17	151.26	NM	NM	NM	NM	NM	NM
ERM-2	208.67	170.06	165.06	197.17	NM	NM	NM	NM	NM	NM
GCB-36(R)	214.385	191.81	181.81	197.685	NM	NM	NM	NM	NM	NM
GZ/DC-2	184.55	174.71	164.71	NM	NM	NM	NM	NM	NM	NM
GZ/DC-5S	189.57	180.47	160.47	182.02	NM	NM	NM	NM	NM	NM
MW-102C(R)	222.67	208.22	193.22	206.77	NM	NM	NM	NM	NM	NM
MW-105B	222.84	202.79	192.29	NM	NM	NM	NM	NM	NM	NM
MW-115	219.7	199.70	179.70	201	NM	NM	NM	NM	NM	NM
MW-203	161.22	156.50	141.50	155.82	NM	NM	NM	NM	NM	NM
MW-506	205.19	192.57	177.57	NM	NM	NM	NM	NM	NM	NM
P-203	175.00	168.46	159.46	NM	NM	NM	NM	NM	NM	NM
P-204	158.475	153.32	146.32	149.43	NM	NM	NM	NM	NM	NM
MW-2520	240.02	225.02	215.02	NM	NM	NM	226.72	NM	NM	NM
MW-2521	209.09	202.09	192.09	NM	NM	NM	202.19	NM	NM	NM
MW-2524	186.04	178.04	168.04	NM	NM	NM	181.84	NM	NM	NM
MW-2525	138.40	135.40	125.40	NM	NM	NM	134.30	NM	NM	NM
MW-2526A	231.61	219.11	209.11	NM	NM	NM	218.61	NM	NM	NM

ART - Artesian Well (water level above measuring point) NM - Water level measurement not measured

Table 3-1. Treatment System Influent Water VOC Concentrations

Date Sampled	PCE	1,1,1-TCA	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	Other VOCs	Total VOCs
1/6/2026	167	64.9	7.3	17.6	3.5	1.2	0	261.5
2/25/2026	248	89.9	5.3	21.6	4.7	1.1	0	370.6
3/13/2026	178	69.1	5.2	17.2	4.1	1.3	0	274.9
4/14/2026	185	83.7	5.5	17.5	4.4	1.1	0	297.7
5/20/2026	192	70.3	6.4	17.0	4.8	1.4	0.35	292.25
6/17/2026	175	56.3	5.2	20.8	4.3	1.6	0	263.2

Notes:

Concentrations in ug/L
1U = Sample was not detected above the specified reporting limit
J = Estimated value
D = Diluted
NS = Not Sampled due to lab issue with sample vials

Table 3-2. Treatment System Effluent Water VOC Concentrations

Date Sampled	PCE	1,1,1-TCA	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	Other VOCs	Total VOCs
7/23/2025	ND	ND	ND	ND	ND	ND	ND	0
8/14/2025	ND	ND	ND	ND	ND	ND	ND	0
9/10/2025	ND	ND	ND	ND	ND	ND	ND	0
10/9/2025	ND	ND	ND	ND	ND	ND	ND	0
11/11/2025	ND	ND	ND	ND	ND	ND	ND	0
12/10/205	ND	ND	ND	ND	ND	ND	ND	0

Notes:

Concentrations in ug/L
1U = Sample was not detected above the specified reporting limit
J = Estimated value
D = Diluted
NS = Not Sampled due to lab issue with sample vials

TABLE 3-3. CONCENTRATIONS OF 1,4-DIOXANE IN GROUNDWATER TREATMENT SYSTEM INFLUENT AND EFFLUENT

DATE	INFLUENT	EFFLUENT
1/6/2026	0.232 J	0.266 J
2/25/2026	0.20 U	0.20 U
3/13/2026	0.20 U	0.20 U
4/14/2026	0.30 U	0.30 U
5/20/2026	0.35	0.20 U
6/17/2026	0.085 U	0.40

NOTES:
Concentrations in µg/L
U - Undetected at stated concentration
J - Estimated value below reporting limit and above method detection limit

TABLE 3-4. VOC MASS REMOVAL ESTIMATE (JANUARY 1, 2026 - JUNE 30, 2026)

Date of Totalizer reading	Totalizer reading (gallons)	Volume Removed (gallons)[1]	Date sample collected	Location of sample	Concentration of VOC in sample collected (ug/L)						Mass of VOC removed (lb)[3]							
					PCE	1,1,1-TCA	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	1,1-DCE	1,1-DCA	cis-1,2-DCE	trans-1,2-DCE	SUM
12/10/2026	43922100			**Reduction[2]**														
			1/6/2026	Influent	167	64.9	7.3	17.6	3.5	1.2								
			1/6/2026	Effluent	0	0	0	0	0	0								
1/6/2026	45011100	1089000		**Reduction[2]**	**167**	**64.9**	**7.3**	**17.6**	**3.5**	**1.2**	**1.52**	**0.59**	**0.07**	**0.16**	**0.03**	**0.01**	**0.00**	**2.38**
			2/25/2026	Influent	248	89.9	5.3	21.6	4.7	1.1								
			2/25/2026	Effluent	0	0	0	0	0	0								
2/25/2026	46169400	1158300		**Reduction[2]**	**248**	**89.9**	**5.3**	**21.6**	**5**	**1.1**	**2.40**	**0.87**	**0.05**	**0.21**	**0.05**	**0.01**	**0.00**	**3.58**
			3/13/2026	Influent	178	69.1	5.2	17.2	4.1	1.3								
			3/13/2026	Effluent	0	0	0	0	0	0								
3/13/2026	47110200	940800		**Reduction[2]**	**178**	**69.1**	**5.2**	**17.2**	**4.1**	**1.3**	**1.40**	**0.54**	**0.04**	**0.14**	**0.03**	**0.01**	**0.00**	**2.16**
			4/14/2026	Influent	185	83.7	5.5	17.5	4.4	1.1								
			4/14/2026	Effluent	0	0	0	0	0	0								
4/14/2026	48336100	1225900		**Reduction[2]**	**185**	**83.7**	**5.5**	**17.5**	**4.4**	**1.1**	**1.89**	**0.86**	**0.06**	**0.18**	**0.05**	**0.01**	**0.00**	**3.04**
			5/20/2026	Influent	192	70.3	6.4	17	4.8	1.4								
			5/20/2026	Effluent	0	0	0	0	0	0								
5/20/2026	49653000	1316900		**Reduction[2]**	**192**	**70.3**	**6.4**	**17**	**4.8**	**1.4**	**2.11**	**0.77**	**0.07**	**0.19**	**0.05**	**0.02**	**0.00**	**3.21**
			6/17/2026	Influent	175	56.3	5.2	20.8	4.3	1.6								
			6/17/2026	Effluent	0	0	0	0	0	0								
6/17/2026	50745600	1092600		**Reduction[2]**	**175**	**56.3**	**5.2**	**20.8**	**4.3**	**1.6**	**1.60**	**0.51**	**0.05**	**0.19**	**0.04**	**0.01**	**0.00**	**2.40**
										Total	**10.9**	**4.1**	**0.3**	**1.1**	**0.2**	**0.1**	**0.0**	**17**
	TOTAL	6,823,500								**Percent of total VOC**	**65%**	**25%**	**2%**	**6%**	**1%**	**0%**	**0%**	

Notes:

1. Difference in end of month totalizer readings (gallons)
2. Reduction=reduction in VOC by the air stripper=Difference between influent and effluent concentration (ug/L)
3. Mass removed (lb)=Concentration (ug/L) x 3.785412 L/gallons x volume removed (gallons) / (10^6 (ug/g) x 453.5924 (g/lb))

Table 3-5 Cumulative VOC Mass Removal

Time Period	Lbs.VOCs Removed
HVEC System 9/8/94-1/11/02	2,460 lb
Bellofram System 5/1995 - 12/2001	757 lb
Combined and Expanded Treatment System 6/17/02 - 6/30/03	136 lb
Combined and Expanded Treatment System 7/1/03 - 6/30/04	221 lb
Combined and Expanded Treatment System 7/1/04 - 6/28/05	128 lb
Combined and Expanded Treatment System 6/29/05 - 6/29/06	128 lb
Combined and Expanded Treatment System 6/30/06 - 6/26/07	119 lb
Combined and Expanded Treatment System 6/27/07 - 6/26/08	92 lb
Combined and Expanded Treatment System 6/27/08 - 12/31/08	43 lb
Combined and Expanded Treatment System 1/1/09 - 6/30/09	36 lb
Combined and Expanded Treatment System 7/1/09 - 12/31/09	26 lb
Combined and Expanded Treatment System 1/1/10 - 6/30/10	52 lb
Combined and Expanded Treatment System 7/1/10 - 12/31/10	44 lb
Combined and Expanded Treatment System 1/1/11 - 6/30/11	46 lb
Combined and Expanded Treatment System 7/1/11 - 12/31/11	38 lb
Combined and Expanded Treatment System 1/1/12 - 6/30/12	43 lb
Combined and Expanded Treatment System 7/1/12 - 12/31/12	37 lb
Combined and Expanded Treatment System 1/1/13 - 6/30/13	31 lb
Combined and Expanded Treatment System 7/1/13 - 12/31/13	37 lb
Combined and Expanded Treatment System 1/1/14 - 6/30/14	28 lb
Combined and Expanded Treatment System 7/1/14 - 12/31/14	34 lb
Combined and Expanded Treatment System 1/1/15 - 6/30/15	33 lb
Combined and Expanded Treatment System 7/1/15 - 12/31/15	26 lb
Combined and Expanded Treatment System 1/1/16 - 6/30/16	17 lb
Combined and Expanded Treatment System 7/1/16 - 12/31/16	17 lb
Combined and Expanded Treatment System 1/1/17 - 6/30/17	23 lb
Combined and Expanded Treatment System 7/1/17 - 12/31/17	18 lb
Combined and Expanded Treatment System 1/1/18 - 6/30/18	16 lb
Combined and Expanded Treatment System 7/1/18 - 12/31/18	12 lb
Combined and Expanded Treatment System 1/1/19 - 6/30/19	19 lb
Combined and Expanded Treatment System 7/1/19 - 12/31/19	20 lb
Combined and Expanded Treatment System 1/1/20 - 6/30/20	13 lb
Combined and Expanded Treatment System 7/1/20 - 12/31/20	33 lb
Combined and Expanded Treatment System 1/1/21 - 6/30/21	16 lb
Combined and Expanded Treatment System 7/1/21 - 12/31/21	16 lb
Combined and Expanded Treatment System 1/1/22 - 6/30/22	15 lb
Combined and Expanded Treatment System 7/1/22 - 12/31/22	15 lb
Combined and Expanded Treatment System 1/1/23 - 6/30/23	23 lb
Combined and Expanded Treatment System 7/1/23 - 12/31/23	16 lb
Combined and Expanded Treatment System 1/1/24 - 6/30/24	10 lb
Combined and Expanded Treatment System 7/1/24 - 12/31/24	17 lb
Combined and Expanded Treatment System 1/1/25 - 6/30/25	8 lb
Combined and Expanded Treatment System 7/1/25 - 12/31/25	7 lb
Combined and Expanded Treatment System 1/1/26 - 6/31/26	17 lb
Cumulative mass removed	**4,943 lb**

Table 3-6: Summary of Tretament System Performance and Operation and Maintenance

	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26
Effluent Water Quality	OK	OK	OK	OK	OK	OK
# of Planned Shutdowns			1	1		1
# of Unplanned Shutdowns	1					
Downtime Hours	4		3	48		3
Total Days in Month	31	31	30	31	30	31
% Downtime/Month	0.5%	0.0%	0.4%	6.5%	0.0%	0.4%
Reason for shutdown						
Treatment System High Sump Alarm			1			
Treatment System Low Blower Pressure Alarm			1			
Blower Filter Changeout						
Transfer Pump Replacement						
Electrical Repair						
Other maintenance performed	PFAS carbon filter media changed in late April 2026 (2 Days), Blower motor replaced durring GAC change out down time.					
Bag Filter Change	1	1	1	1	1	1

Notes

Table 3-7 Influent and Effluent PFAS Concentrations

Date Sampled	3/12/2025		4/16/2025		5/14/2025		6/25/2025		7/23/2025		8/14/2025		9/10/2025		10/9/2025		11/11/2025		12/10/2025	
Compound	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)
Perflourodecanoic acid	NM	0.0169	NM	<0.0020	NM	<0.0020	NM	0.001	NM	0.00088	NM	0.0021	NM	0.00077	NM	0.0051	0.0228	0.0048	0.0274	0.0127
Perflourohetanoic acid	NM	0.027	NM	<0.0020	NM	<0.0020	NM	0.0036	NM	0.0058	NM	0.0032	NM	0.0045	NM	0.0165	0.0364	0.017	0.0339	0.0211
Perflourohexanesulfonic acid	NM	0.0044	NM	<0.0020	NM	<0.0020	NM	<0.0020	NM	<0.0020	NM	0.0021	NM	0.002	NM	0.0011	0.0045	0.0022	0.0048	0.0024
Perflouroctanoic acid	NM	0.0617	NM	<0.0020	NM	<0.0020	NM	0.0032	NM	0.004	NM	0.0013	NM	0.0027	NM	0.0172	0.0791	0.0279	0.0771	0.0448
Perflouroctanesulfonic acid	NM	0.019	NM	<0.0020	NM	<0.0020	NM	0.0022	NM	0.00091	NM	0.0021	NM	<0.0020	NM	0.0046	0.0245	0.0045	0.0494	0.0195
Perflourononanoic acid	NM	0.0438	NM	<0.0020	NM	<0.0020	NM	0.0064	NM	0.0075	NM	0.003	NM	0.0065	NM	0.029	0.051	0.0182	0.0726	0.0376
PFAS6 SUM	**NM**	**0.1728**	**NM**	**<0.0020**	**NM**	**<0.0020**	**NM**	**0.0164**	**NM**	**0.01909**	**NM**	**0.0138**	**NM**	**0.01647**	**NM**	**0.0735**	**0.2183**	**0.0746**	**0.2652**	**0.1381**

Date Sampled	1/6/2026		2/25/2026		3/13/2026		4/14/2026		5/20/2026		6/17/2026	
Compound	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)	Influent (ug/L)	Effluent (ug/L)
Perflourodecanoic acid	0.0294	0.0112	0.0506	0.0216	0.0355	0.0175	0.0294	0.0167	0.035	<0.00064	0.0336	<0.00062
Perflourohetanoic acid	0.0366	0.0213	0.0395	0.0234	0.0374	0.0252	0.0395	0.0254	0.0426	<0.00052	0.0432	0.0022
Perflourohexanesulfonic acid	0.0034	0.0014	0.004	0.0022	0.004	0.0029	0.0034	0.0032	0.0043	<0.0011	0.0037	<0.0011
Perflouroctanoic acid	0.0752	0.0332	0.0947	0.0494	0.081	0.0543	0.084	0.0538	0.0958	<0.00078	0.103	0.0036
Perflouroctanesulfonic acid	0.03	0.0139	0.0256	0.0125	0.0294	0.0151	0.0254	0.0164	0.0264	<0.00045	0.0265	<0.00043
Perflourononanoic acid	0.0817	0.0427	0.0925	0.0446	0.0712	0.0407	0.0754	0.0393	0.0861	<0.00041	0.0822	0.002
PFAS6 SUM	**0.2563**	**0.1237**	**0.3069**	**0.1537**	**0.2585**	**0.1557**	**0.2571**	**0.1548**	**0.2902**	**0**	**0.2922**	**0.0078**

*NM - Not Measured

*PFAS Detection Limit is <0.0020

TABLE 4-1 GROUNDWATER QUALITY RESULTS, JULY - DECEMBER 2025

LOCATION	Date	QA Type	PCE	1,1,1-TCA	TCE	1,1-DCE	1,1,-DCA	cis-1,2-DCE	1-2- DCA	Vinyl Chloride	1,4-Dioxane
BEDROCK WELLS											
B-602	12/2/2025	P	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.3 U
CES-11D	12/2/2025	P	45.8	1 U	2.9	1 U	1 U	3.9	1 U	1 U	0.3 U
CES-11D	12/2/2025	DUP	28.8	1 U	2.1	1 U	1 U	2.5	1 U	1 U	0.3 U
ERM-12M	12/3/2025	P	9.8	1.2	11.6	4.5	1.6	2.8	1 U	1 U	1.06
MW/EW-S	12/3/2025	P	175	120	9.1	22.9	4.4	1.2	1 U	1 U	0.399
MW-203B	12/3/2025	P	10.9	1.6	11.1	3.7	1.5	20.4	1 U	1 U	2.04
MW-203A	12/3/2025	P	1 U	1 U	1.3	1 U	6.9	1 U	1 U	1 U	3.26
MW-204B	12/2/2025	P	45.6	2.1	30.7	3.3	2.5	27.4	1 U	5.2	2.56
MW-204A	12/2/2025	P	1 U	2	3.2	2.4	2.5	57.5	1 U	7.5	2.19
MW-605	12/2/2025	P	30.8	5.6	4.2	1.5	1 U	1	1 U	1 U	0.392
MW-202A	12/2/2025	P	1.3	1 U	4.2	1 U	1 U	1 U	1 U	1 U	1.97
MW-202B	12/3/2025	P	1	1 U	4.3	1 U	1 U	1 U	1 U	1 U	-
MW/EW-C	12/3/2025	P	76.5	1 U	6.8	1 U	1 U	1 U	1 U	1 U	0.869
MW-201A	12/3/2025	P	212	1 U	84.5	1.3	9.2	45.3	1 U	1 U	2.13
MW-201B	12/3/2025	P	224	1 U	7.2	1 U	1 U	5.2	1 U	1 U	0.3 U
ERM-14R	12/2/2025	P	109	174	5.4	41.3	12.7	1.8	1 U	1 U	0.3 U
JTB-402	12/2/2025	P	122	137	5.3	6.4	1.6	1 U	1 U	1 U	0.3 U
JTB-404	12/2/2025	P	436	1 U	5.3	1 U	1 U	1.2	1 U	1 U	0.3 U
MW/EW-N	12/2/2025	P	39.8	1 U	1.6	1 U	1 U	1 U	1 U	1 U	0.3 U
MW-604	12/3/2025	P	98.9	1 U	2.6	1 U	1 U	1 U	1 U	1 U	0.3 U
MW-603	12/3/2025	P	8.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	-
UNCONSOLIDATED DEPOSIT MONITORING WELLS											
B-105B	12/2/2025	P	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	0.3 U

Concentrations reported in ug/L

U - Not detected at indicated detection limit

P - Normal sample

DUP - Duplicate sample

Table 4-2: 2021 Groundwater Analytical Data

Analyte	Method Name	Unit	MCP STANDARDS MCP GW-1 >=	Client Sample ID:	MW-105A	MW-105B	DUPLICATE 1 (MW-105B)	MW-1028	MW-102C (R)	GZ-DC-4AD	GZ-DC-4AS	MW-201A	MW-201B	MW-203A	MW-203B	MW-204A	MW-204B	CES-10S	CES-11D	CES-12D	B-106	ERM-14R	PW-503	PW-503	JTB-404	JTB-402	MW-EW-N	MW-EW-S	MW-604	MW-605	Field Blank	Field Blank
				Sample Date:	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/23/2021	6/24/2021	6/24/2021	6/24/2021	6/24/2021	6/24/2021	6/24/2021	6/17/2021	10/21/2020	6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/23/2021	6/17/2021
PFAS 6 Compounds																																
Perfluorodecanoic acid	EPA 537M BY ID	ng/L	∑20		0.99 (J)	23.1	20.4	<1.9	<1.8	11	<1.8	11.5	7.8	21.6	32.7	20.5	13.9	30	10.4	21.9	2.8	9.1	114	69.1	33.4	16.6	23.2	61.6	74.2	51.2	<1.8	<1.8
Perfluoroheptanoic acid	EPA 537M BY ID				10.6	10.2	9.2	5.2	6.1	19.9	3.8	78.8	42.6	47.8	57.9	50.6	46.9	15.5	30.5	35.1	5.3	24.3	36.1	22.9	17.1	29.2	14.9	20.1	125	118	<1.8	<1.8
Perfluorohexanesulfonic acid	EPA 537M BY ID				9.8	5	4.4	<1.9	1.9	3.3	2.5	20.9	10.2	6	8	8.5	8.1	4.6	6.4	6.8	3	<2.0	-	<1.8	<1.9	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8
Perfluorononanoic acid	EPA 537M BY ID				20.4	23.3	20.7	2.2	14.4	10.6	11.9	46.8	34.4	46.5	67.8	50.8	44	29.9	20.4	36.1	12.4	4.1	7.73	5.7	6.5	6.3	6.9	5.3	8.2	5.5	<1.8	<1.8
Perfluorooctanesulfonic acid	EPA 537M BY ID				7.3	10.9	9.7	1.3 (J)	2.2	9.5	14.1	76.9	14.2	42	75.7	139	190	39.9	2.5	23.4	155	<2.0	-	21.6	19.6	3.2	20.9	8.2	84.6	24.8	<1.8	<1.8
Perfluorooctanoic acid	EPA 537M BY ID				18.6	19.3	16.8	2.9	17	30.9	17	97.7	71.3	71.4	10	81.8	73	31.2	41.3	57.6	24.9	11.5	157	88.2	33.8	49.2	22.5	55.5	83.3	121	<1.8	<1.8
PFAS 6 SUM		ng/L	**20**		**66.7**	**91.8**	**81.2**	**10.3**	**41.6**	**85.2**	**49.3**	**332.6**	**180.5**	**235.3**	**252.1**	**351.2**	**375.9**	**151.1**	**111.5**	**180.9**	**203.4**	**49**	**314.83**	**207.5**	**110.4**	**104.5**	**88.4**	**150.7**	**375.3**	**320.5**	**0**	**0**
Other PFAS/PFOA Compounds																																
Ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA)	EPA 537M BY ID	ng/L			<3.6	<3.6	<3.36	<3.7	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.7	<3.6	<3.6	<3.6	<3.6	<3.6	<4.0	-	<3.6	<3.7	<3.6	<3.7	<3.6	<3.7	<3.6	<3.6	<3.6
Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	EPA 537M BY ID	ng/L			<7.1	<3.6	<7.1	<3.7	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.7	<3.6	<3.6	<3.6	<3.6	<3.6	<4.0	-	<3.6	<3.7	<3.6	<3.7	<3.6	<3.7	<3.6	<3.6	<3.6
Perfluorobutanesulfonic acid	EPA 537M BY ID	ng/L			3.8	2.8	2.7	<1.9	1.1 (J)	5.5	5.4	3.7	3	3.8	4.4	3	2.8	3	2.5	59	2.4	<2.0	-	<1.8	<1.9	<1.8	<1.9	<1.8	<1.9	<1.8	<1.8	<1.8
Perfluorododecanoic acid	EPA 537M BY ID	ng/L			<1.8	1.7 (J)	1.3 (J)	<1.9	<1.8	3.1	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.8	6.7	<1.8	<1.8	<1.8	3.9	-	4.6	4.5	3.7	4.2	4.5	8.4	3.5	<1.8	<1.8
Perfluorohexanoic acid	EPA 537M BY ID	ng/L			22.4	10	9.2	6.2	5.9	22.8	2.5	67.5	32.5	38.3	48.8	38.9	37.5	14.5	22	33.4	4	21.2	199	129	56.4	43.5	41.4	96.8	120	109	<1.8	<1.8
Perfluorotetradecanoic acid	EPA 537M BY ID	ng/L			5.6	<1.8	<1.8	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.8	<1.8	<1.8	<8.9	<1.8	<2.0	-	7.4	2.5	0.92 J	1.0 J	2.5	4.3	3.9	<1.8	<1.8
Perfluorotridecanoic acid	EPA 537M BY ID	ng/L			2.4	<1.8	<1.8	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8	9.7	-	51	31.2	15.5	24.9	50	74.9	32.3	<1.8	<1.8
Perfluoroundecanoic acid	EPA 537M BY ID	ng/L			<1.8	10.4	8.8	<1.9	<1.8	16.2	<1.8	1.5 (J)	1.9	1.5 (J)	2.9	2.2	<1.8	17.2	0.99 J	9.2	<1.8	3.8	64.6	43.3	23.3	16.9	19.1	23.2	108	89	<1.8	<1.8

Table 4-3: 2024 Groundwater Analytical Data

			Client Sample ID:	B-105B	CES-11D	ERM-12M	MW-204A	MW/EW-S	MW-604	PW-503	MW-602	MW-605	MW-202A	MW/EW-C	MW-201A	GZ/DC-5D	ERM-14R	JTB-402	JTB-404	MW/EW-N	B-106	B-107	MW-102CR	MW-505A	MW-603A	MW-203A
			Lab Sample ID:	FC16603-3	FC16603-4	FC16603-5	FC16603-6	FC16603-7	FC16603-8	FC16603-9	FC16603-10	FC16603-11	FC16603-12	FC16603-13	FC16603-14	FC16603-15	FC16603-16	FC16603-17	FC16603-18	FC16603-19	FC16603-20	FC16603-21	FC16603-22	FC16603-23	FC16603-24	FC16603-25
			Sample Date:	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/17/2024	6/18/2024	6/18/2024	6/18/2024	6/18/2024	6/18/2024	6/18/2024
Analyte	**Method Name**	**Unit**	**MCP STANDARDS GW-1 >=**																							
PFAS 6 Compounds																										
Perfluorodecanoic acid	EPA 537M BY ID	ng/L		27.7	11.9	ND (2)	19.4	32.9	24.2	112	ND (2)	15	18.1	18.2	9.1	18.9	3.5	23.1	39.3	19.6	15.3	5	ND (2)	ND (10)	25.7	19.6
Perfluoroheptanoic acid	EPA 537M BY ID	ng/L		20.6	20.9	23.9	44.4	64	40.5	101	3.6	22.4	55.7	61.9	60.2	23.8	9	24.1	94.8	22.2	6.7	5.9	2.6	ND (2.1) b	15.6	51.4
Perfluorohexanesulfonic acid	EPA 537M BY ID	ng/L	∑20	5.2	3.8	8.7	6.8	3.7	5.8	6.1	ND (2)	2.8	11	7.4	14.8	20.8	3.4	4.9	8.2	5.4	ND (2)	2.2	ND (2)	ND (10	4.7	5.9
Perfluorononanoic acid	EPA 537M BY ID	ng/L		26.5	23.3	10.4	42.8	75.4	44.9	165	ND (2)	28.4	49.8	55.5	35.1	17	14.5	53.9	96.8	24.7	32.6	19.5	12.9	ND (2.1) b	13.3	50.2
Perfluorooctanesulfonic acid	EPA 537M BY ID	ng/L		30.7	184	65.5	112	21.5	108	56.6	ND (2)	54	184	28.6	59	24.9	28.9	50.4	21.8	16.4	127	249	4	ND (10)	30.4	39.2
Perfluorooctanoic acid	EPA 537M BY ID	ng/L		36.7	37.3	28.6	72.5	103	67.9	178	2.4	39.2	71.7	99	70.1	40.3	20.7	44.2	142	36.6	21.9	23.5	7.1	ND (2.1) b	22.2	83.7
PFAS6 SUM		ng/L	**20**	**147.4**	**281.2**	**137.1**	**297.9**	**300.5**	**291.3**	**618.7**	**6**	**161.8**	**390.3**	**270.6**	**248.3**	**145.7**	**80**	**200.6**	**402.9**	**124.9**	**203.5**	**305.1**	**26.6**	**0**	**111.9**	**250**
Other PFAS/PFOA Compounds																										
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) (F53B Minor)	EPA 537M BY ID	ng/L		ND (80)	ND (8)	ND (40)	ND (8.2)	ND (7.8)	ND (8.2)	ND (8.2)	ND (8.2)	ND (8)	ND (200)	ND (7.8)	ND (7.8)	ND (7.8)	ND (8)	ND (8)	ND (9.3)	ND (8.3)	ND (8)	ND (8.7)	ND (8.2)	ND (42)	ND (9.5)	ND (8)
Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate (9Cl-PF3ONS) (F53B Major)	EPA 537M BY ID	ng/L		ND (40)	ND (8)	ND (8)	ND (8.2)	ND (7.8)	ND (8.2)	ND (8.2)	ND (8.2)	ND (8)	ND (39)	ND (7.8)	ND (7.8)	ND (7.8)	ND (8)	ND (8)	ND (9.3)	ND (8.3)	ND (8)	ND (8.7)	ND (8.2)	ND (42)	ND (9.5)	ND (8)
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	EPA 537M BY ID	ng/L		ND (8)	ND (8)	ND (8)	ND (8.2)	ND (7.8)	ND (8.2)	ND (8.2)	ND (8.2)	ND (8)	ND (7.8)	ND (7.8)	ND (7.8)	ND (7.8)	ND (8)	ND (8)	ND (9.3)	ND (8.3)	ND (8)	ND (8.7)	ND (8.2)	ND (42)	ND (9.5)	ND (8)
Ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA)	EPA 537M BY ID	ng/L		ND (4)	ND (4)	ND (4)	ND (4.1)	ND (3.9)	ND (4.1)	ND (4.1)	ND (4.1)	ND (4)	ND (20)	ND (3.9)	ND (3.9)	3.9	ND (4)	ND (4)	ND (4.7)	ND (4.2)	ND (4)	ND (4.3)	ND (4.1)	ND (21)	ND (4.8)	ND (4)
Hexafluoropropylene oxide-dimer acid ((HFPO-DA (GenX))	EPA 537M BY ID	ng/L		ND (4)	ND (4)	ND (4)	ND (4.1)	ND (3.9)	ND (4.1)	ND (4.1)	ND (4.1)	ND (4)	ND (3.9)	ND (3.9)	ND (3.9)	ND (3.9)	ND (4)	ND (4)	ND (4.7)	ND (4.2)	ND (4)	ND (4.3)	ND (4.1)	ND (4.2)	ND (4.8)	ND (4)
Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	EPA 537M BY ID	ng/L		ND (4)	ND (4)	ND (4)	ND (4.1)	ND (3.9)	ND (4.1)	ND (4.1)	ND (4.1)	ND (4)	ND (20)	ND (3.9)	ND (3.9)	ND (3.9)	ND (4)	ND (4)	ND (4.7)	ND (4.2)	ND (4)	ND (4.3)	ND (4.1)	ND (21)	ND (4.8)	ND (4)
Perfluorobutanesulfonic acid	EPA 537M BY ID	ng/L		33	2.7	2.3	2.8	3.7	3.8	4.1	8.7	2.7)	4.4	2.7	3.4	6.9	3.1	3.4	3.7	3.8	ND (2)	ND (2.2)	ND (2)	ND (2.1)	3.4	4.7
Perfluorododecanoic acid	EPA 537M BY ID	ng/L		ND (20)	ND (2)	ND (10)	ND (2)	2.4	ND (2)	17.6)	2.5	ND (2)	ND (49)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.3)	ND (2.1)	ND (2)	ND (2.2)	ND (2)	ND (10)	2.8	ND (2)
Perfluorohexanoic acid	EPA 537M BY ID	ng/L		21	17.9	21.1	31.9	38.7	27.9	53.1)	8.9)	15.7)	51.2	42.5	49.6	27.4	8.1	17.2	61.7	21	5.8	4.1	ND (2)	ND (2.1)	18	35.8
Perfluorotetradecanoic acid	EPA 537M BY ID	ng/L		ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.3)	ND (2.1)	ND (2)	ND (2.2)	ND (2)	ND (10)	ND (2.4)	ND (2)
Perfluorotridecanoic acid	EPA 537M BY ID	ng/L		ND (20)	ND (2)	ND (10)	ND (2)	ND (2)	ND (2)	2.2	ND (2)	ND (2)	ND (49)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2.3)	ND (2.1)	ND (2)	ND (2.2)	ND (2)	ND (10)	ND (2.4)	ND (2)
Perfluoroundecanoic acid	EPA 537M BY ID	ng/L		ND (20)	ND (2)	ND (2)	2.1	11.5	7	57.8	ND (2)	3.9)	ND (49)	5.9	ND (2)	10.4	ND (2)	5.2	10.5	22.6	3.2	ND (2.2)	ND (2)	ND (10)	20.3)	ND (2)

Table 4-4: 2025 Groundwater Analytical Data

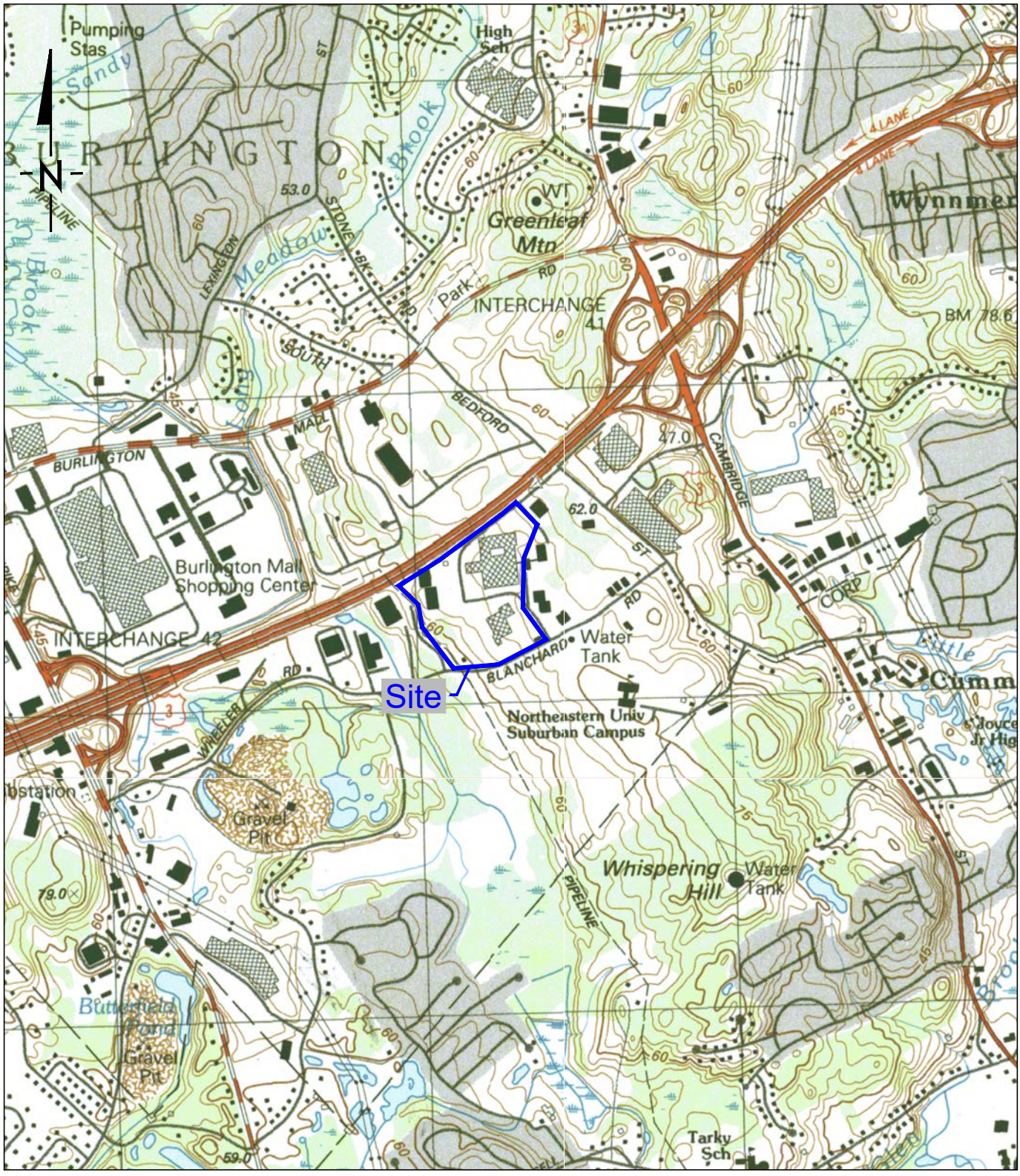
			Client Sample ID:	MW-203A	MW-2517	MW-2516	MW-2514	MW-2527	MW-EW-S	B-105B	ERM-12M	MW-EW-N	JTB-404	ERM-14R	MW-604	MW-605	MW-204A
			Lab Sample ID:	FC25159-1	FC25159-2	FC25159-3	FC25159-4	FC25159-5	FC25159-6	FC25159-7	FC25159-8	FC25159-12	FC25159-13	FC25159-14	FC25159-15	FC25159-16	FC25159-17
			Sample Date:	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025	6/3/2025
Analyte	**Method Name**	**Unit**	**MCP STANDARDS GW-1 >=**														
PFAS 6 Compounds																	
Perfluorodecanoic acid	EPA 537M BY ID	ng/L	∑20	10.4	57.5	34.1	12.5	ND (1.9)	37.3	17.8	ND (1.9)	15.9	64.2	6.6	20.5	12.5	14.7
Perfluoroheptanoic acid	EPA 537M BY ID	ng/L		19.1	29.6	ND (11)	34.5	ND (1.9)	44.4	10.5	23.1	21.4	109	10.4	43.2	22.5	28.8
Perfluorohexanesulfonic acid	EPA 537M BY ID	ng/L		2.7	ND (1.9)	3.9 b	2.6	ND (1.9)	4.2	4	7.6	4.8	ND (12)	2.7	4.5	3	5.6
Perfluorononanoic acid	EPA 537M BY ID	ng/L		18.3	757	64.9	43.3	ND (1.9)	79.4	16.7	9.8	23.1	164	19	45.3	28.3	29.1
Perfluorooctanesulfonic acid	EPA 537M BY ID	ng/L		24.9	10.9	12.9	8.6	ND (1.9)	30.4	95.4	65.3	12	21.2	31.5	66.3	37	144
Perfluorooctanoic acid	EPA 537M BY ID	ng/L		47.2	460	41.7	105	ND (1.9)	97.4	31.2	33.4	46.9	246	25.8	86.1	53.6	57.1
PFAS6 SUM		ng/L	**20**	**122.6**	**1315**	**153.6**	**206.5**	**0**	**293.1**	**175.6**	**139.2**	**124.1**	**604.4**	**96**	**265.9**	**156.9**	**279.3**
Other PFAS/PFOA Compounds																	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) (F53B Minor)	EPA 537M BY ID	ng/L		ND (47)	ND (7.4)	ND (8.9)	ND (8.0)	ND (7.4)	ND (8.3)	ND (38)	ND (7.4)	ND (7.4)	ND (9.5)	ND (7.7)	ND (7.5)	ND (7.4)	ND (7.5)
Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate (9Cl-PF3ONS) (F53B Major)	EPA 537M BY ID	ng/L		ND (9.3)	ND (37)	ND (44)	ND (8.0)	ND (7.4)	ND (8.3)	ND (7.5)	ND (7.4)	ND (7.4)	ND (48)	ND (7.7)	ND (7.5)	ND (7.4)	ND (7.5)
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	EPA 537M BY ID	ng/L		ND (9.3)	ND (7.4)	ND (8.9)	ND (8.0)	ND (7.4)	ND (8.3)	ND (7.5)	ND (7.4)	ND (7.4)	ND (9.5)	ND (7.7)	ND (7.5)	ND (7.4)	ND (7.5)
Ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA)	EPA 537M BY ID	ng/L		ND (4.7)	ND (3.7)	ND (4.4)	ND (4.0)	ND (3.7)	ND (4.2)	ND (3.8)	ND (3.7)	ND (3.7)	ND (4.8)	ND (3.8)	ND (3.8)	ND (3.7)	ND (3.8)
Hexafluoropropylene oxide-dimer acid ((HFPO-DA (GenX))	EPA 537M BY ID	ng/L		ND (4.7)	ND (3.7)	ND (4.4)	ND (4.0)	ND (3.7)	ND (4.2)	ND (3.8)	ND (3.7)	ND (3.7)	ND (4.8)	ND (3.8)	ND (3.8)	ND (3.7)	ND (3.8)
Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	EPA 537M BY ID	ng/L		ND (4.7)	ND (3.7)	ND (4.4)	ND (4.0)	ND (3.7)	ND (4.2)	ND (3.8)	ND (3.7)	ND (3.7)	ND (4.8)	ND (3.8)	ND (3.8)	ND (3.7)	ND (3.8)
Perfluorobutanesulfonic acid	EPA 537M BY ID	ng/L		3.4	ND (1.9)	2.6 b	5.5	ND (1.9)	2.3 b	33	ND (1.9)	2	ND (2.4) b	2.1 b	ND (1.9) b	ND (1.9)	ND (1.9)
Perfluorododecanoic acid	EPA 537M BY ID	ng/L		ND (2.3) b	ND (1.9)	ND (2.2)	ND (2.0)	ND (1.9)	3.1	ND (9.4)	ND (1.9)	ND (1.9)	ND (2.4)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Perfluorohexanoic acid	EPA 537M BY ID	ng/L		17.9	25.2	11.8	35	ND (1.9)	31.8	11	22.1	21.5	70.1	10.2	31.8	15.7	25.8
Perfluorotetradecanoic acid	EPA 537M BY ID	ng/L		ND (2.3) b	ND (1.9)	ND (2.2)	ND (2.0)	ND (1.9)	ND (2.1)	ND (9.4)	ND (1.9)	ND (1.9)	ND (2.4)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Perfluorotridecanoic acid	EPA 537M BY ID	ng/L		ND (12)	ND (1.9)	ND (2.2)	ND (2.0)	ND (1.9)	ND (2.1)	ND (9.4)	ND (1.9)	ND (1.9)	ND (2.4)	ND (1.9)	ND (1.9)	ND (1.9)	ND (1.9)
Perfluoroundecanoic acid	EPA 537M BY ID	ng/L		ND (2.3)	ND (1.9)	5.1	5.5	ND (1.9)	12.3	6.2	ND (1.9)	25.7	21.8	ND (1.9)	8	4.3	ND (1.9)

				Ground Water							Surface Water	QA/QC Field Data		
			Client Sample ID:	B-105B	B-107	CES-11D	ERM-12M	GZ/DC-5D	JTB-404	MW-202A	SW-4	EQ-BLANK	FIELD BLANK 1	FIELD BLANK 2
			Lab Sample ID:	JE24410-1A	JE24410-2	JE24410-4	JE24410-6	JE24410-8	JE24410-10	JE24410-16	JE24410-25	JE24410-26	JE24410-27	JE24410-28
			Sample Date:	12/2/2025	12/2/2025	12/2/2025	12/3/2025	12/2/2025	12/2/2025	12/2/2025	12/3/2025	12/3/2025	12/2/2025	12/3/2025
			Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Surface Water	Equipment Blank	Field Blank Water	Field Blank Water
Analyte	**Method Name**	**Unit**	**MCP Standards GW-1 >=**											
PFAS 6 Compounds														
Perfluorodecanoic acid	EPA 1633	ng/L	∑20	24.6	3.8	ND (2.2)	ND (2.2)	15	59.4	13.3	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluoroheptanoic acid	EPA 1633	ng/L		15.3	6.6	2.8	10.2	31.5	113	52.9	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorohexanesulfonic acid	EPA 1633	ng/L		4.2	ND (2.0)	ND (2.2)	4.3	3.3	6.7	11.3	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorononanoic acid	EPA 1633	ng/L		36	17.5	5	4.4	37.2	165	54.4	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorooctanesulfonic acid	EPA 1633	ng/L		47.4	136	10.6	13.4	12.1	15.2	133	2.9	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorooctanoic acid	EPA 1633	ng/L		38.4	22.2	5.4	15	62.3	225	86.1	4.4	ND (2.2)	ND (2.1)	ND (2.2)
PFAS 6 SUM		ng/L	20	**165.9**	**186.1**	**23.8**	**47.3**	**161.4**	**584.3**	**351**	**7.3**	**0**	**0**	**0**
Other PFAS/PFOA Compounds														
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) (F53B Minor)	EPA 1633	ng/L		ND (8.4)	ND (8.2)	ND (8.7)	ND (8.7)	ND (8.6)	ND (8.5)	ND (8.6)	ND (8.5)	ND (8.7)	ND (8.5)	ND (8.6)
Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate (9Cl-PF3ONS) (F53B Major)	EPA 1633	ng/L		ND (8.4)	ND (8.2)	ND (8.7)	ND (8.7)	ND (8.6)	ND (8.5)	ND (8.6)	ND (8.5)	ND (8.7)	ND (8.5)	ND (8.6)
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	EPA 1633	ng/L		ND (8.4)	ND (8.2)	ND (8.7)	ND (8.7)	ND (8.6)	ND (8.5)	ND (8.6)	ND (8.5)	ND (8.7)	ND (8.5)	ND (8.6)
Ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA)	EPA 1633	ng/L		ND (2.1)	ND (2.0)	ND (2.2)	ND (11)	ND (2.1)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Hexafluoropropylene oxide-dimer acid ((HFPO-DA (GenX))	EPA 1633	ng/L		ND (8.4)	ND (8.2)	ND (8.7)	ND (8.7)	ND (8.6)	ND (8.5)	ND (8.6)	ND (8.5)	ND (8.7)	ND (8.5)	ND (8.6)
Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	EPA 1633	ng/L		ND (2.1)	ND (2.0)	ND (2.2)	ND (2.2)	ND (2.1)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorobutanesulfonic acid	EPA 1633	ng/L		62.5	2.5	ND (2.2)	ND (2.2)	3.4	2.4	3.1	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorododecanoic acid	EPA 1633	ng/L		ND (2.1)	ND (2.0)	ND (2.2)	ND (2.2)	ND (2.1)	2.8	ND (2.2)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorohexanoic acid	EPA 1633	ng/L		21.3	5.4	3.3	10.5	27.7	64.2	53.5	3.1	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorotetradecanoic acid	EPA 1633	ng/L		ND (2.1)	ND (2.0)	ND (2.2)	ND (2.2)	ND (2.1)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluorotridecanoic acid	EPA 1633	ng/L		ND (2.1)	ND (2.0)	ND (2.2)	ND (2.2)	ND (2.1)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)
Perfluoroundecanoic acid	EPA 1633	ng/L		5.9	ND (2.0)	ND (2.2)	ND (2.2)	15.4	20.9	ND (2.2)	ND (2.1)	ND (2.2)	ND (2.1)	ND (2.2)

Table 4-5: 2026 Groundwater Analytical Data

				Ground Water						
			Client Sample ID:	MWTT-2520	MWTT-2521	MWTT-2522	MWTT-2524	MWTT-2525	MWTT-2526A	MWTT-2526B
			Lab Sample ID:	JE30556-1	JE30556-2	JE34528-1	JE30556-3	JE30556-4	JE30556-5	JE30556-6
			Sample Date:	3/18/2026	3/18/2026	5/18/2026	3/18/2026	3/18/2026	3/18/2026	3/18/2026
			Matrix:	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
Analyte	**Method Name**	**Unit**	**MCP Standards GW-1 >=**							
PFAS 6 Compounds										
Perfluorodecanoic acid	EPA 1633	ng/L	∑20	ND (0.63)	0.77 J	ND(1.9)	ND (0.64)	3.1	6.4	ND (0.62)
Perfluoroheptanoic acid	EPA 1633	ng/L		12.1	10.3	2.4	1.5 J	1.5 J	50.9	ND (0.5)
Perfluorohexanesulfonic acid	EPA 1633	ng/L		1.9 J	3.5	2	ND (1.1)	3.6	2	ND (1.1)
Perfluorononanoic acid	EPA 1633	ng/L		2.9	10.7	ND(1.9)	1.2 J	56	119	ND (0.4)
Perfluorooctanesulfonic acid	EPA 1633	ng/L		1.9 J	3.9	ND(1.9)	2.8	ND (0.45)	ND (0.43)	ND (0.43)
Perfluorooctanoic acid	EPA 1633	ng/L		19	41.9	1.9	3.4	3.2 J	880	ND (0.74)
PFAS 6 SUM		**ng/L**	**20**	**34**	**70.3**	**6.3**	**6.2**	**62.7**	**1058.3**	**0**
Other PFAS/PFOA Compounds										
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) (F53B Minor)	EPA 1633	ng/L		ND (1.8)	ND (1.9)	ND(7.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)
Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate (9Cl-PF3ONS) (F53B Major)	EPA 1633	ng/L		ND (2.5)	ND (2.6)	ND(7.8)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.4)
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	EPA 1633	ng/L		ND (1.2)	ND (1.3)	ND(7.8)	ND (1.3)	ND (1.3)	ND (1.2)	ND (1.2)
Ethyl perfluorooctane sulfonamido acetic acid (EtFOSAA)	EPA 1633	ng/L		ND (0.54)	ND (0.55)	ND(1.9)	ND (0.54)	ND (0.55)	ND (0.53)	ND (0.53)
Hexafluoropropylene oxide-dimer acid ((HFPO-DA (GenX))	EPA 1633	ng/L		ND (1.8)	ND (1.9)	ND(7.8)	ND (1.8)	ND (1.9)	ND (1.8)	ND (1.8)
Methylperfluorooctane sulfonamidoacetic acid (MeFOSAA)	EPA 1633	ng/L		ND (0.52)	ND (0.53)	ND(1.9)	ND (0.52)	ND (0.53)	ND (0.51)	ND (0.51)
Perfluorobutanesulfonic acid	EPA 1633	ng/L		23.9	4.5	3.7	1.4 J	ND (0.69)	2.6	ND (0.65)
Perfluorododecanoic acid	EPA 1633	ng/L		ND (0.78)	ND (0.81)	ND(1.9)	ND (0.79)	ND (0.8)	ND (0.78)	ND (0.76)
Perfluorohexanoic acid	EPA 1633	ng/L		11	6.7	2.7	2.3	86.5	11.4	ND (0.29)
Perfluorotetradecanoic acid	EPA 1633	ng/L		ND (0.77)	ND (0.79)	ND(1.9)	ND (0.78)	ND (0.79)	ND (0.77)	ND (0.75)
Perfluorotridecanoic acid	EPA 1633	ng/L		ND (0.8)	ND (0.83)	ND(1.9)	ND (0.81)	ND (0.82)	ND (0.8)	ND (0.78)
Perfluoroundecanoic acid	EPA 1633	ng/L		ND (0.56)	ND (0.58)	ND(1.9)	ND (0.56)	ND (0.57)	ND (0.55)	ND (0.55)

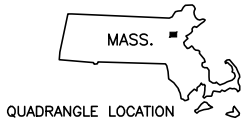
FIGURES



Scanned USGS Quads by MassGIS

0 1,500

Scale in feet



QUADRANGLE LOCATION

G:\HIGHVOLT_2015\01-15-RPT\LOCUS.DWG

TITLE:

SITE LOCATION MAP

LOCATION:

Former HighVoltage/Bellofram Sites, Burlington, MA.

TETRA TECH

APPROVED	ABS
DRAFTED	RMK
PROJECT#	
DATE	FEB 2015

FIGURE

1-1

EXPLANATION

- APPROVED ZONE II BOUNDARY (From 11/18/97 M.A.D.E.P GIS Scoring Map)
- CURRENT PROPERTY BOUNDARY (APPROXIMATE)
- FORMER PROPERTY BOUNDARY (APPROXIMATE)
- ORACLE AUL AREA
- MONITORING WELL
- NEW MONITORING WELL
- ABANDONED MONITORING WELL
- EXTRACTION WELL
- INACTIVE EXTRACTION WELL
- NEW BORING
- APPROXIMATE PROPERTY BOUNDARY
- MW-3 SELECTED FOR PFAS SAMPLING
- LEACH FIELD
- WETLAND AREA
- MW-2522 WELL LOCATION

OVERLAY DISTRICT

- AQUIFER
- WATER RESOURCE

YANKEE DIVISION HIGHWAY - ROUTE 95

BLANCHARD ROAD

COMMONWEALTH EXECUTIVE DR

WHEELER ROAD

MULLER ROAD

VAN DE GRAAFF DRIVE

3RD ST

Former VanDe Graaff Belt Building

Former Soil Pile Treatment Location

Former HVEC Leach Fields

American Landmark III Property

Former ANC Area

Former High Voltage Property

Former Degreaser Area

Historic Parking Lot Release Location

Area of Former Hazardous Waste Storage and Acid Neutralization Chamber

Former Metal Buffing Area

Former Tennis 128 Property

Former Glass Cutting UST

Former Industrial Dry Well

Oracle Property

Former Trench Structure

Former Bellofram/Rexnord Property

dataCon Property

Former Tank Washing Area

70 Blanchard Road

Former Tech Weld Building

Former Tech Weld Property

Former Bellofram Leach Field Location

Location of New Treatment System

Former Bellofram Leach Fields

Approved Zone II Boundary (From 11/18/97 M.A.D.E.P GIS Scoring Map)

MW-2526B

MW-2526A

MW-2520

MW-2521

MW-2522

MW-2525

NOTES:

1. FOR ON-SITE LOCATIONS, BASE MAP, PROPERTY BOUNDARIES AND WELL LOCATIONS PROVIDED BY V.H.B.
2. FOR OFF-SITE LOCATIONS INFORMATION DIGITIZED FROM VARIOUS PLANS AND REPORTS. LOCATIONS ARE APPROXIMATE.

0 380 760

SCALE IN FEET

TITLE: PROPERTY OWNERSHIP / POTENTIAL SOURCE MAP

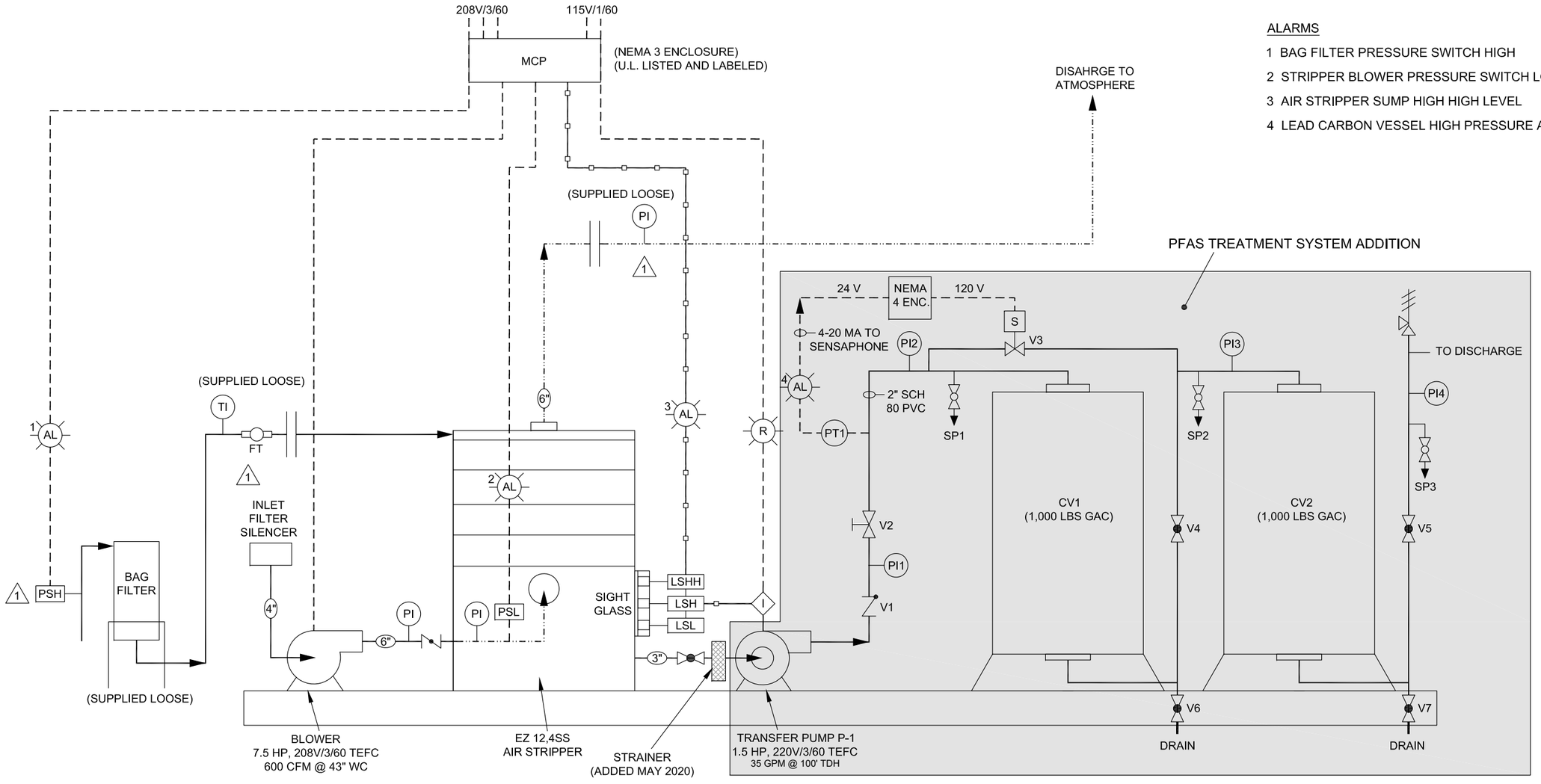
LOCATION: Former HighVoltage/Bellofram Sites, Burlington, MA.

TETRA TECH

APPROVED	MT
DRAFTED	CP
PROJECT#	117-367085-25002
DATE	AUGUST 2026

FIGURE 1-2

P:\ACAD\367085-25002-HVEC\367085-25002-021A.DWG



ALARMS

1 BAG FILTER PRESSURE SWITCH HIGH

2 STRIPPER BLOWER PRESSURE SWITCH LOW

3 AIR STRIPPER SUMP HIGH HIGH LEVEL

4 LEAD CARBON VESSEL HIGH PRESSURE ALARM

PIPING EQUIPMENT AND INSTRUMENT SYMBOLS

- BALL VALVE
- GATE VALVE
- SAMPLE PORT
- CHECK VALVE
- BUTTERFLY VALVE
- SOLENOID VALVE
- INTERLOCK
- BREAK
- ALARM LIGHT
- RUN LIGHT
- AIR LINE
- WATER LINE
- CONTROL LINE
- INTRINSICALLY SAFE LINE

FT	FLOW TOTALIZER
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH HIGH
LSL	LEVEL SWITCH LOW
MCP	MASTER CONTROL PANEL
PI	PRESSURE INDICATOR
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
SP	SAMPLE PORT
TI	TEMPERATURE INDICATOR
PT	PRESSURE TRANSDUCER

NOTE:
BASED ON BISCO ENVIRONMENTAL DRAWING GROUNDWATER TREATMENT EQUIPMENT PROCESS & INSTRUMENTATION DIAGRAM DATED 06/20/01 REVISED BY TETRA TECH 06/02/2020.

TITLE: GROUNDWATER TREATMENT SYSTEM MODIFICATION PROCESS AND INSTRUMENTATION DIAGRAM

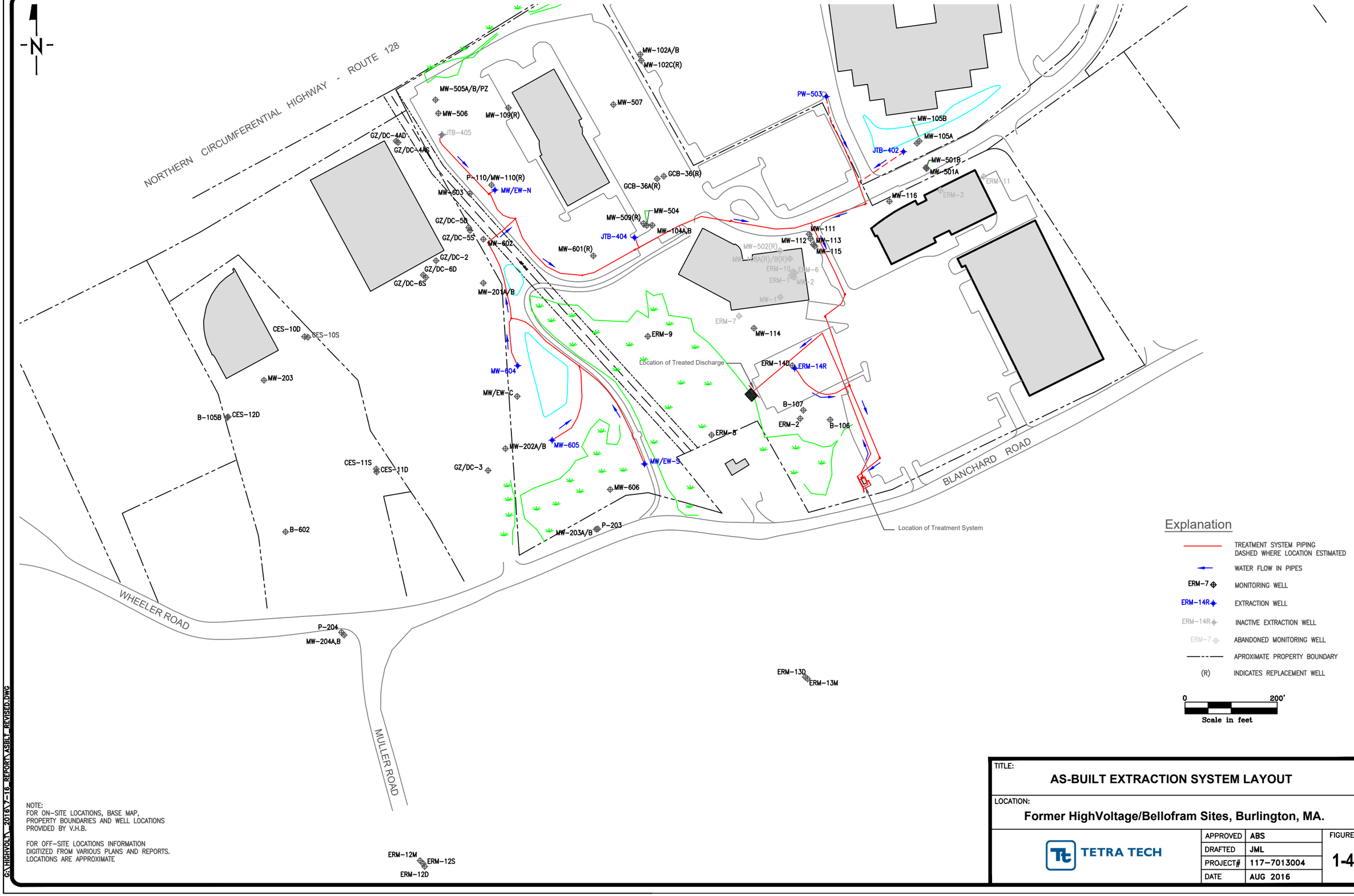
LOCATION: Former HighVoltage/Bellofram Sites, Burlington, MA.

TETRA TECH

APPROVED	MT
DRAFTED	CP
PROJECT#	117-367085-25001
DATE	MARCH 2025

FIGURE 1-3

P:\ACAD\367085-25001-HVEC\PROCESS & INSTRUMENTATION DIAGRAM 03-19-25.DWG



Explanation

- TREATMENT SYSTEM PIPING DASHED WHERE LOCATION ESTIMATED
- WATER FLOW IN PIPES
- ERM-7 — MONITORING WELL
- ERM-14R — EXTRACTION WELL
- ERM-14R — INACTIVE EXTRACTION WELL
- ERM-7 — ABANDONED MONITORING WELL
- APROXIMATE PROPERTY BOUNDARY
- (R) INDICATES REPLACEMENT WELL

0 200'

Scale in feet

NOTE:
FOR ON-SITE LOCATIONS, BASE MAP, PROPERTY BOUNDARIES AND WELL LOCATIONS PROVIDED BY V.H.B.

FOR OFF-SITE LOCATIONS INFORMATION DIGITIZED FROM VARIOUS PLANS AND REPORTS. LOCATIONS ARE APPROXIMATE

G:\HIGHVOLT_2016\V7-16_REPORT\ASBLT_REVISED.DWG

TITLE:

AS-BUILT EXTRACTION SYSTEM LAYOUT

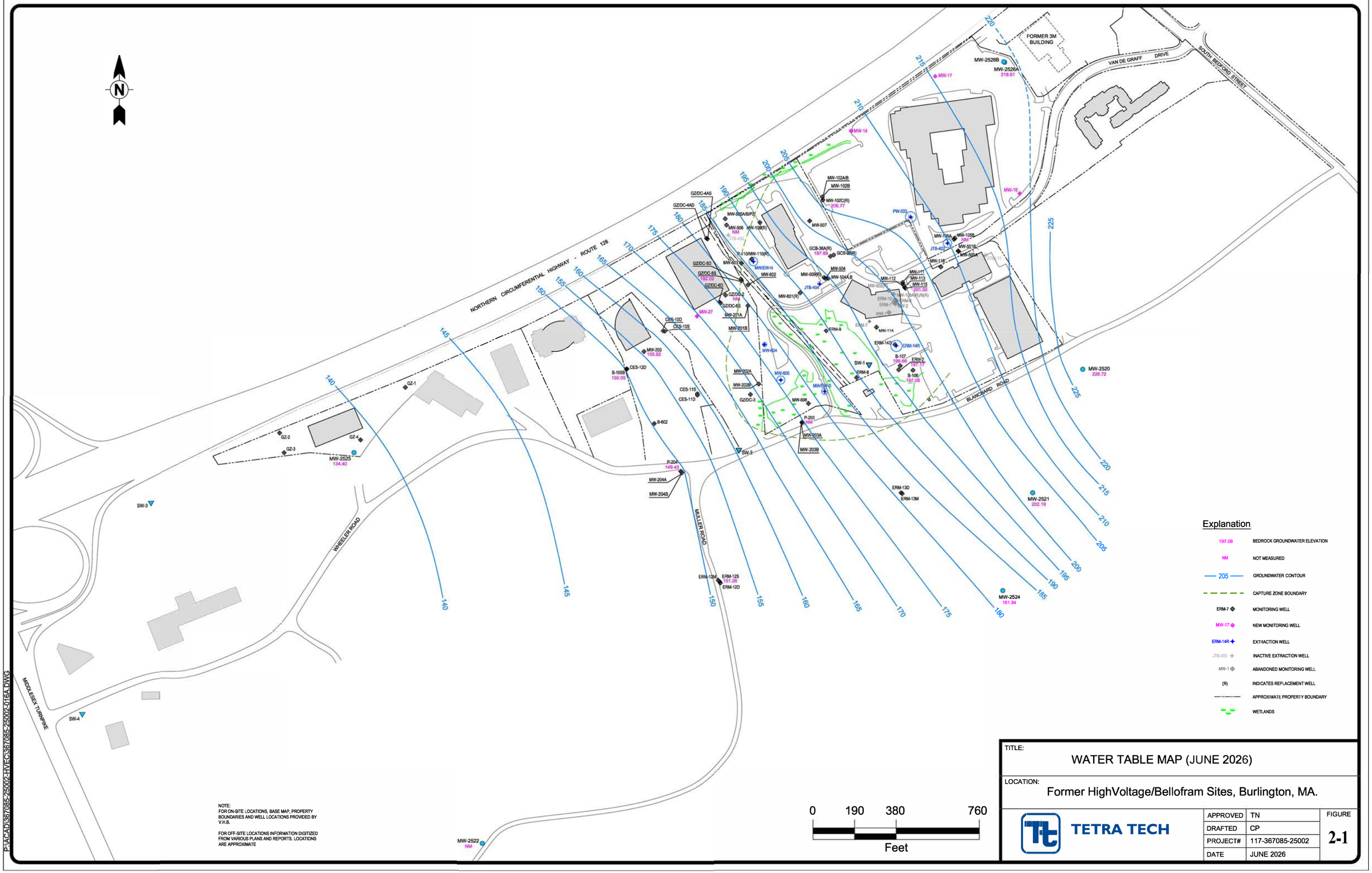
LOCATION:

Former HighVoltage/Bellofram Sites, Burlington, MA.

TETRA TECH

APPROVED	ABS
DRAFTED	JML
PROJECT#	117-7013004
DATE	AUG 2016

FIGURE 1-4



Explanation

197.08	BEDROCK GROUNDWATER ELEVATION
NM	NOT MEASURED
205	GROUNDWATER CONTOUR
	CAPTURE ZONE BOUNDARY
ERM-7	MONITORING WELL
MW-17	NEW MONITORING WELL
ERM-14R	EXTRACTION WELL
JTB-405	INACTIVE EXTRACTION WELL
MW-1	ABANDONED MONITORING WELL
(R)	INDICATES REPLACEMENT WELL
	APPROXIMATE PROPERTY BOUNDARY
	WETLANDS

NOTE:
FOR ON-SITE LOCATIONS, BASE MAP, PROPERTY BOUNDARIES AND WELL LOCATIONS PROVIDED BY V.H.B.

FOR OFF-SITE LOCATIONS INFORMATION DIGITIZED FROM VARIOUS PLANS AND REPORTS. LOCATIONS ARE APPROXIMATE

0 190 380 760
Feet

TITLE:
WATER TABLE MAP (JUNE 2026)

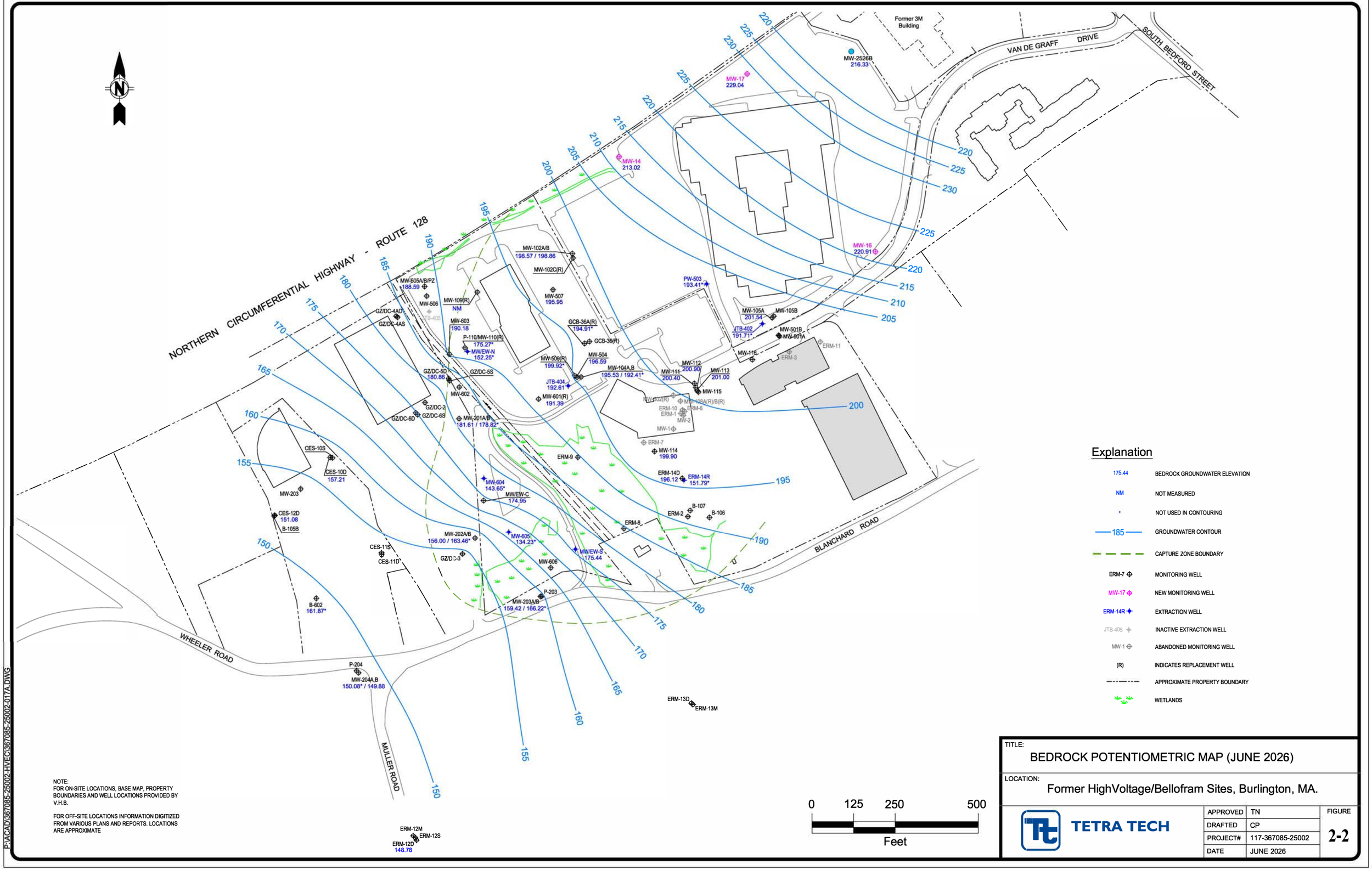
LOCATION:
Former HighVoltage/Bellofram Sites, Burlington, MA.

TETRA TECH

APPROVED	TN
DRAFTED	CP
PROJECT#	117-367085-25002
DATE	JUNE 2026

FIGURE
2-1

P:\ACAD\367085-25002-HVEC\367085-25002-016A.DWG



Explanation

175.44	BEDROCK GROUNDWATER ELEVATION
NM	NOT MEASURED
*	NOT USED IN CONTOURING
185	GROUNDWATER CONTOUR
	CAPTURE ZONE BOUNDARY
ERM-7	MONITORING WELL
MW-17	NEW MONITORING WELL
ERM-14R	EXTRACTION WELL
JTB-405	INACTIVE EXTRACTION WELL
MW-1	ABANDONED MONITORING WELL
(R)	INDICATES REPLACEMENT WELL
	APPROXIMATE PROPERTY BOUNDARY
	WETLANDS

NOTE:
FOR ON-SITE LOCATIONS, BASE MAP, PROPERTY BOUNDARIES AND WELL LOCATIONS PROVIDED BY V.H.B.

FOR OFF-SITE LOCATIONS INFORMATION DIGITIZED FROM VARIOUS PLANS AND REPORTS. LOCATIONS ARE APPROXIMATE

0 125 250 500
Feet

TITLE:
BEDROCK POTENTIOMETRIC MAP (JUNE 2026)

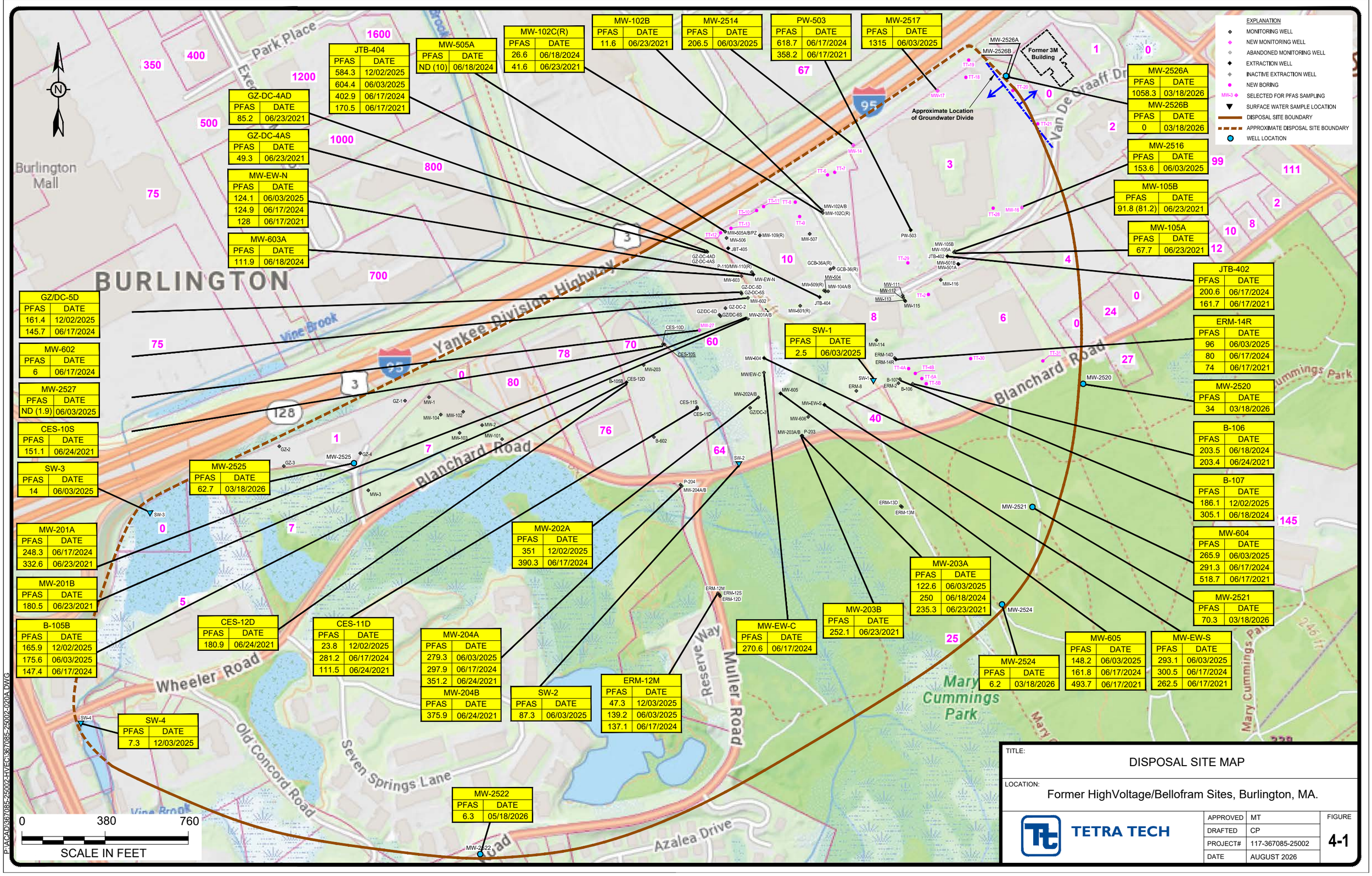
LOCATION:
Former HighVoltage/Bellofram Sites, Burlington, MA.

TETRA TECH

APPROVED	TN
DRAFTED	CP
PROJECT#	117-367085-25002
DATE	JUNE 2026

FIGURE
2-2

P:\ACAD\367085-25002-HVEC\367085-25002-017A.DWG



TITLE: DISPOSAL SITE MAP

LOCATION: Former HighVoltage/Bellofram Sites, Burlington, MA.

TETRA TECH

APPROVED	MT
DRAFTED	CP
PROJECT#	117-367085-25002
DATE	AUGUST 2026

FIGURE 4-1

P:\ACAD\367085-25002-HVEC\367085-25002-020A.DWG

APPENDIX A

MAY 10, 2011, APRIL 4, 2012, APRIL 30, 2015 APRIL 27, 2018 AND OCTOBER 28, 2023 REMEDIAL GENERAL PERMITS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RECEIPT REQUESTED

MAY 10 2011

Ms. Grady Konieczko
Senior Project Environmental Scientist
Geo Trans, Inc.

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Former High Voltage Engineering Corporation/Bellofram site located at 85 South Bedford Street, Burlington, MA 01803, Middlesex County; Authorization # MAG910026 - Reissuance

Dear Ms. Konieczko :

Based on the review of a Notice of Intent (NOI) submitted on behalf of American Landmark III, LLC by your firm GeoTrans, Inc., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the check list does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at: http://www.epa.gov/region1/npdes/mass.html#dgp.

Please note that in the enclosed checklist we have included the parameters which you have marked believed present. Also, we have included total petroleum hydrocarbons (TPH) which you have marked believed absent. TPH was included because this parameter was detected in the laboratory records above the effluent limit in more than one occasion.

Finally, please note the list of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that the termination date for this discharge is unknown. If for any reason the discharge terminates prior to the permit expiration date you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,

David M. Webster, Chief
Industrial Permits Branch

Enclosure

cc: Kathleen Keohane, MassDEP

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Permit Number:	**MAG910026 - Reissuance**
Permit Issued Month:	May, 2011
Facility/Site Name:	Former High Voltage Engineering/ Bellofram site
Facility/Site Address:	85 South Bedford Street, Burlington, MA 01803, Middlesex County
	Email address of owner: Not Provided; Phone n: 781-229-1996
Legal Name of Operator:	GeoTrans, Inc.
Operator contact name, title, and Address:	Grady M. Konieczko, Senior Project Environmental Scientist One Monarch Drive, Suite 101, Littleton, MA 01460
	Email grady.konieczko@geotransinc.com
Estimated Date of Completion:	Unknown
Category and Sub-Category:	Category II. Non Petroleum Site Remediation. Subcategory A. Volatile Organic Compound (VOC) Only Sites.
Receiving Water:	Wetland near Vine Brook

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML 5ug/L
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
√	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 5ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether	70.0 ug/l /Me#8260C/ ML 10ug/L

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	(MtBE)	
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only (ug/L)/ Me#8260C/ ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L) /Me#8260C/ ML 10ug/L
	14. Naphthalene [5]	20 ug/L /Me#8260C/ ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML5ug/L
√	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
√	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
√	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
√	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
√	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
√	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
√	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
√	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L,

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
		Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11] Freshwater			
	39. Antimony	5.6/10mL			
	40. Arsenic **	10/20mL			
	41. Cadmium **	0.2/10ml			
	42. Chromium III (trivalent) **	48.8/15mL			
	43. Chromium VI (hexavalent)	11.4/10mL			

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11] Freshwater			
	**				
	44. Copper **	5.2/15mL			
	45. Lead **	1.3/20mL			
	46. Mercury **	0.9/0.2mL			
	47. Nickel **	29/20mL			
	48. Selenium **	5/20mL			
	49. Silver	1.2/10mL			
	50. Zinc **	66.6/15mL			
	51. Iron	1,000/20mL			

	Other Parameters	Limit
√	52. Instantaneous Flow	Site specific in CFS
√	53. Total Flow	Site specific in CFS
√	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab[13]
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab[13]
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[13]
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab[14]
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab[14]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab[14]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab[14]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab[14]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab[14]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab[14]
	64. Maximum Change in Temperature in MA – Any Class SB water body - October to June	4°F; 1/Month/Grab[14]

Footnotes:

[1] Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).
[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).
[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.
[14] Temperature sampling per Method 170.1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

April 4, 2012

Ms. Grady Konieczko
Senior Project Scientist
Tetra Tech GEO
One Monarch Drive, Suite 101
Littleton, MA 01460

Re: Notice of Change/ Permit Certification for Remediation General Permit (RGP) – MAG910000. Former High Voltage Engineering Corporation/Bellofram site located at 85 South Bedford Street, Burlington, MA 01803, Middlesex County Authorization # MAG910026

Dear Ms. Konieczko :

Based on the review of a Notice of Change (NOC) request and permit certification letter dated February 29, 2012, submitted on behalf of American Landmark III, LLC by your firm Tetra Tech GEO, for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby is authorizing a monitoring frequency change for the discharge of pollutants in accordance with the provisions of the RGP/ NOC as follows:

1. Monitoring frequency changed from monthly to every two months for influent and effluent monitoring. Reason: Bi- monthly frequency is appropriate due to effective compliance noted during the last 11 months.
2. No changes in monitoring requirements due to Permit Certification. The Permit List remains unchanged.

This change in monitoring frequency is effective immediately. The remaining permit requirements of the Authorization issued on May 10, 2011 remains unchanged. Thank you

for your cooperation in this matter. Please call me at 617-918-1572 or email me at Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,

Victor Alvarez
Environmental Engineer
U.S. E.P.A. New England
Storm Water and Construction
Permits Section
5 Post Office Square, Suite 100
Boston, MA 02109-3912
Mail Code OEP06-4
Ph: 617-918-1572
Email: alvarez.victor@epa.gov

Enclosure

cc: Kathleen Keohane, MassDEP

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Permit Number:	**MAG910026 – NOC/Certification**
Permit Issued Month:	April , 2012
Facility/Site Name:	Former High Voltage Engineering/ Bellofram site
Facility/Site Address:	85 South Bedford Street, Burlington, MA 01803, Middlesex County
	Email address of owner: Not Provided; Phone n: 781-229-1996
Legal Name of Operator:	GeoTrans, Inc.
Operator contact name, title, and Address:	Grady M. Konieczko, Senior Project Environmental Scientist One Monarch Drive, Suite 101, Littleton, MA 01460
	Email grady.konieczko@geotransinc.com
Estimated Date of Completion:	Unknown
Category and Sub-Category:	Category II. Non Petroleum Site Remediation. Subcategory A. Volatile Organic Compound (VOC) Only Sites.
Receiving Water:	Wetland near Vine Brook

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML 5ug/L
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
√	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 5ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/L/ Me#8260C/ ML 2ug/L

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l /Me#8260C/ ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only (ug/L)/ Me#8260C/ ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L) /Me#8260C/ ML 10ug/L
	14. Naphthalene [5]	20 ug/L /Me#8260C/ ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML5ug/L
√	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
√	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
√	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
√	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
√	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
√	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
√	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
√	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
` ` ` `	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L,

	Parameter	**Effluent Limit / Method# / ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
		Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
√	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

		Total Recoverable Metal Limit @ H [10] = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11]	
	Metal parameter	**Freshwater**	
	39. Antimony	5.6/10mL	

	Metal parameter	Total Recoverable Metal Limit @ H [10] = 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11] Freshwater			
	40. Arsenic **	10/20mL			
	41. Cadmium **	0.2/10ml			
	42. Chromium III (trivalent) **	48.8/15mL			
	43. Chromium VI (hexavalent) **	11.4/10mL			
	44. Copper **	5.2/15mL			
	45. Lead **	1.3/20mL			
	46. Mercury **	0.9/0.2mL			
	47. Nickel **	29/20mL			
	48. Selenium **	5/20mL			
	49. Silver	1.2/10mL			
	50. Zinc **	66.6/15mL			
	51. Iron	1,000/20mL			

	Other Parameters	Limit
√	52. Instantaneous Flow	Site specific in CFS
√	53. Total Flow	Site specific in CFS
√	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab[13]
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab[13]
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[13]
	57. Daily maximum temperature - Warm water fisheries	83˚F; 1/Month/Grab[14]
	58. Daily maximum temperature - Cold water fisheries	68˚F; 1/Month/Grab[14]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5˚F; 1/Month/Grab[14]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5˚F; 1/Month/Grab[14]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3˚F; 1/Month/Grab[14]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5˚F; 1/Month/Grab[14]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5˚F; 1/Month/Grab[14]
	64. Maximum Change in Temperature in MA – Any Class SB water body - October to June	4˚F; 1/Month/Grab[14]

Footnotes:

[1] Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).
[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

[14] Temperature sampling per Method 170.1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

April 30, 2015

Ms. Mara Goldstein
Vice President of Operations
American Landmark III, LLC
3 Van De Graaf Dr.
Burlington, MA 01803

Re: Notice of Change (NOC)/ Monitoring Reduction & Permit Certification for Remediation General Permit (RGP) – MAG910026. Former High Voltage Engineering Corporation/Bellofram site located at 85 South Bedford Street, Burlington, MA 01803

Dear Ms. Goldstein:

Based on the review of a Notice of Change (NOC) submitted by Anne B. Sheehan from Tetratech, Inc., requesting Monitoring Reduction & Permit Certification on behalf of American Landmark III, for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes the monitoring reduction of pollutants in accordance with the provisions of the RGP/ NOC as follows:

1. Monitoring reduction of Poly Chlorinated Biphenyls, and Total Petroleum Hydrocarbons. Reason: The above mentioned pollutants were not detected in the influent and effluent discharges above the Appendix III limitation during the monitoring reporting time required by the RGP.
2. No other permit changes has resulted with regards to the requested Permit Certification, the reported information appears completed in accordance with the RGP requirements. Therefore, the Permit List with the exception of the parameters indicated above remains unchanged.

This change in monitoring frequency is effective immediately. The remaining permit requirements of the Authorization issued on May 10, 2011 remains unchanged.

Please call me at 617-918-1572 or email me at Alvarez.Victor@epa.gov, if you have any questions pertaining to this NOC.

Sincerely,

Victor Alvarez
Environmental Engineer
U.S. E.P.A. New England
Storm Water and Construction
Permits Section
5 Post Office Square, Suite 100
Boston, MA 02109-3912
Mail Code OEP06-4
Ph: 617-918-1572
Email: alvarez.victor@epa.gov

Enclosure

cc: Bob Kubit, MassDEP
Anne B. Sheehan, Tetra Tech

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Permit Number:	**MAG910026 – NOC/Certification**
Permit Issued Month:	April , 2015
Facility/Site Name:	Former High Voltage Engineering/ Bellofram site
Facility/Site Address:	85 South Bedford Street, Burlington, MA 01803, Middlesex County
	Email address of owner: Phone n: 781-229-1996
Legal Name of Operator:	American Land Mark III, LLC
Operator contact name, title, and Address:	Anne B. Sheehan, Project Manager, Senior Hydrologist Scientist One Monarch Drive, Suite 102, Littleton, MA 01460
	Email anne.sheehan@tetratech.com
Estimated Date of Completion:	Unknown
Category and Sub-Category:	Category II. Non Petroleum Site Remediation. Subcategory A. Volatile Organic Compound (VOC) Only Sites.
Receiving Water:	Wetland near Vine Brook

Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing **, Me#60.2/ML 5ug/L
	2. Total Residual Chlorine (TRC) [1]	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) [2, 3]	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/L **/ Me#335.4/ML 5ug/L
	5. Benzene (B)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l /Me#8260C/ ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only (ug/L)/ Me#8260C/ ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L) /Me#8260C/ ML 10ug/L
	14. Naphthalene [5]	20 ug/L /Me#8260C/ ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML5ug/L
√	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
√	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
√	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
√	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
√	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
√	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
√	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
√	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
‘‘‘‘	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L,

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
		Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11] Freshwater			
	39. Antimony	5.6/10mL			
	40. Arsenic **	10/20mL			
	41. Cadmium **	0.2/10ml			

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11] Freshwater			
	42. Chromium III (trivalent) **	48.8/15mL			
	43. Chromium VI (hexavalent) **	11.4/10mL			
	44. Copper **	5.2/15mL			
	45. Lead **	1.3/20mL			
	46. Mercury **	0.9/0.2mL			
	47. Nickel **	29/20mL			
	48. Selenium **	5/20mL			
	49. Silver	1.2/10mL			
	50. Zinc **	66.6/15mL			
	51. Iron	1,000/20mL			

	Other Parameters	Limit
√	52. Instantaneous Flow	Site specific in CFS
√	53. Total Flow	Site specific in CFS
√	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab[13]
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab[13]
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[13]
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab[14]
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab[14]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab[14]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab[14]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab[14]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab[14]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab[14]
	64. Maximum Change in Temperature in MA – Any Class SB water body - October to June	4°F; 1/Month/Grab[14]

Footnotes:

[1] Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).
[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Aroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).
[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.
[14] Temperature sampling per Method 170.1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912

VIA EMAIL

April 27, 2018

Thomas Nunno
Tetra Tech, Inc.
One Monarch Drive
Littleton, MA 01460
thomas.nunno@tetratech.com

Re: Authorization to discharge under the Remediation General Permit (RGP) – Authorization #MAG910026, for the Former High Voltage and Bellofram sites located in Burlington, MA

Dear Mr. Nunno:

Based on the review of a Notice of Intent (NOI) received June 30, 2017 and revised January 9, 2018 for the site referenced above, the U.S. Environmental Protection Agency, Region 1 (EPA) hereby authorizes Tetra Tech, Inc., as the named operator, to discharge in accordance with the provisions of the RGP from this site to an unnamed tributary to Vine Brook (MA83-06). The authorization number is listed above. The effective date of coverage is the date of this authorization letter. This authorization supersedes the authorization issued May 10, 2011.

Enclosed with this RGP authorization to discharge is a summary of the applicable effluent limitations and monitoring requirements for your activity category II, non-petroleum-related site remediation discharge. Where a given parameter does not apply to the discharge, EPA has indicated "Not Required" in the enclosed summary. A dilution factor of zero (i.e., 1:1) was used in calculating effluent limits applicable to the proposed discharge from this site. Please note that this summary does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of the RGP, including influent and effluent monitoring, record keeping, and reporting requirements. For the complete general permit, see EPA's RGP website, currently available at: https://www.epa.gov/npdes-permits/remediation-general-permit-rgp-massachusetts-new-hampshire.

This EPA general permit and authorization to discharge will expire on April 8, 2022, or upon Notice of Termination (NOT), whichever occurs first. However, in accordance with Part 5.3 of the general permit, your permit coverage will be administratively continued until issuance of a new RGP. Please note that you must submit a NOT within thirty (30) days of the termination of the discharge. You have reported your discharges do not yet have an expected termination date. Because your discharge is expected to last twelve (12) months or more, you are subject to NetDMR reporting requirements that begin May 1, 2019. See Part 4.6 and 5.2 of the RGP, and Appendix IV, Part 3 for more information regarding reporting requirements.

Please ensure that sufficiently sensitive test methods are used for all sample analyses conducted for this permit. To be considered sufficiently sensitive, test methods must achieve a minimum level (ML) for analysis for a given parameter that is no greater than the effluent limitation for that parameter, unless otherwise specified for that parameter. Where no effluent limitation applies, EPA has provided the ML required with the enclosed summary. Where a compliance level applies, EPA has provided the required compliance level with the enclosed summary.

Thank you in advance for your cooperation in this matter. Please contact Shauna Little at (617) 918-1989 or little.shauna@epa.gov, if you have any questions.

Sincerely,

THELMA MURPHY Digitally signed by THELMA MURPHY
Date: 2018.04.27 15:33:31 -04'00'

Thelma Murphy, Chief
Stormwater and Construction Permits Section
Office of Ecosystem Protection

cc: Mara Riemer Goldstein, American Landmark III, LLC, via email
Cathy Vakalopoulos, MassDEP, via email

Table 1: Authorization Information

Permit Number	MAG910026
Receiving Water	Unnamed tributary to Vine Brook
Outfall Number	Outfall 001
Monitoring Requirements	See Table 2 through Table 6, below; See Part 4.1 of the RGP; WET testing required
Reporting Requirement	See Part 4.6.1 of the RGP; NetDMR requirements begin May 1, 2019

Table 2: Chemical-Specific Effluent Limitations and Monitor-Only Requirements[1]

Parameter	Effluent Limitation[2]
A. Inorganics	
Ammonia[3]	Report mg/L
Chloride[4]	Report µg/L
Total Residual Chlorine[5]	Not Required
Total Suspended Solids	30 mg/L
Antimony[6]	206 µg/L
Arsenic[6]	104 µg/L
Cadmium[6]	10.2 µg/L
Chromium III[6]	323 µg/L
Chromium VI[6]	323 µg/L
Copper[6]	242 µg/L
Iron[6]	5,000 µg/L
Lead[6]	160 µg/L
Mercury[6]	0.739 µg/L
Nickel[6]	1,450 µg/L
Selenium[6]	235.8 µg/L
Silver[6]	35.1 µg/L
Zinc[6]	420 µg/L
Cyanide[7]	Not Required
B. Non-Halogenated Volatile Organic Compounds	
Total BTEX	100 µg/L
Benzene	5.0 µg/L
1,4 Dioxane	200 µg/L
Acetone	7.97 mg/L
Phenol	1,080 µg/L
C. Halogenated Volatile Organic Compounds	
Carbon Tetrachloride	4.4 µg/L

1,2 Dichlorobenzene	600 µg/L
1,3 Dichlorobenzene	320 µg/L
1,4 Dichlorobenzene	5.0 µg/L
1,1 Dichloroethane	70 µg/L
1,2 Dichloroethane	5.0 µg/L
1,1 Dichloroethylene	3.2 µg/L
Ethylene Dibromide	Not Required
Methylene Chloride	4.6 µg/L
1,1,1 Trichloroethane	200 µg/L
1,1,2 Trichloroethane	5.0 µg/L
Trichloroethylene	5.0 µg/L
Tetrachloroethylene	3.3 µg/L
cis-1,2 Dichloroethylene	70 µg/L
Vinyl Chloride	2.0 µg/L
D. Non-Halogenated Semi-Volatile Organic Compounds	
Total Phthalates	Not Required
Diethylhexyl Phthalate	Not Required
Total Group 1 Polycyclic Aromatic Hydrocarbons[8]	Not Required
Benzo(a)anthracene[8]	Not Required
Benzo(a)pyrene[8]	Not Required
Benzo(b)fluoranthene[8]	Not Required
Benzo(k)fluoranthene[8]	Not Required
Chrysene[8]	Not Required
Dibenzo(a,h)anthracene[8]	Not Required
Indeno(1,2,3-cd)pyrene[8]	Not Required
Total Group II Polycyclic Aromatic Hydrocarbons	Not Required
Naphthalene	Not Required
E. Halogenated Semi-Volatile Organic Compounds	
Total Polychlorinated Biphenyls[9]	Not Required
Pentachlorophenol	Not Required
F. Fuels Parameters	
Total Petroleum Hydrocarbons	Not Required
Ethanol	Not Required
Methyl-tert-Butyl Ether	Not Required
tert-Butyl Alcohol	Not Required
tert-Amyl Methyl Ether	Not Required

Table 2 Notes:

[1] The following abbreviations are used in Table 2, above:
[a] mg/L = milligrams per liter
[b] µg/L = micrograms per liter

[2] The limitation type for all parameters is monthly average.

[3] The minimum level (ML) for analysis of ammonia must be less than or equal to 0.1 mg/L.

[4] The ML for analysis of chloride must be less than or equal to 230 mg/L.

[5] The ML for analysis of total residual chlorine (TRC) must be less than or equal to 50 µg/L.

[6] The limitation for this parameter is on the basis of total recoverable metal in the water column.

[7] Total cyanide must be reported. The ML for analysis of total cyanide must be less than or equal to 5.0 µg/L.

[8] The ML for analysis of group I polycyclic aromatic hydrocarbons (PAHs) must be less than or equal to 0.1 µg/L.

[9] The ML for analysis of total polychlorinated biphenyls (PCBs) must be less than or equal to 0.5 µg/L.

Table 3: Effluent Flow Limitation[1]

Effluent Flow	**Effluent Limitation[2]**
	0.0936 MGD

Table 3 Notes

[1] The following abbreviations are used in Table 3, above:
[a] MGD = million gallons per day

[2] The limitation type for effluent flow is daily maximum.

Table 4: pH Limitations[1]

Receiving Water Class	Effluent Limitation[2]
Freshwater	6.5 to 8.3 SU

Table 4 Notes

[1] The following abbreviations are used in Table 4, above:

[a] SU = standard units

[2] The limitation type for pH is range.

Table 5: Temperature Limitations[1]

Receiving Water Class		Effluent Limitation[2]	ΔT Limitation[3]
Class B	Warm Water Fishery	Not Required	Not Required

Table 5 Notes

[1] The following abbreviations are used in Table 5, above:

[a] ^{o}F = degrees Fahrenheit

[b] ΔT = change in temperature

[c] ≤ = less than or equal to

[2] The limitation type for temperature is daily maximum.

[3] Change in temperature from background shall be determined by subtracting the temperature of the effluent from the temperature of the receiving water measured at a point immediately upstream of a discharge's zone of influence at a reasonably accessible location

Table 6: Additional Requirements[1]

Parameter	Effluent Limitation[2]
None Required	N/A

Table 6 Notes

[1] N/A

[2] N/A = not applicable

Actions	Facility Name	NPDES ID	Submission Status	Submission Type	Coverage Status	Certified/Submitted Date	Effective Date
Actions	Former High Voltage Engineering Corp. / Bellofram	MAG912064	Approved	Change	Active	09/28/2023 10:00 AM	04/09/2023

Coverage Requests

Facility Details

Form Type: Notice_Of_Intent
Facility Operator Name: Tetra Tech Inc.
Facility Name: Former High Voltage Engineering Corp. / Bellofram
NPDES ID: MAG912064
Tracking Number: 0e921df6-9774-4c35-be59-e8fe21a32b20

Site Information
Facility Street: 3 Van de Graaff Drive
Facility City: Burlington
Facility State: MA
Facility Zip: 01803
Facility Location: 42.479391°N, 71.1987°W

Indian Lands: No
Coverage Status: Active
Submitted Date: 09/28/2023 10:00 AM
Last Modified: 10/28/2023 10:05 AM

Operator Contact Information
Name: Thomas Nunno
Title: Licensed Site Professional
Phone: 978-697-4909
Email: thomas.nunno@tetratech.com

Form History

Facility Name	Status	Certified Date	Form Type	Tracking Number
Former High Voltage Engineering Corp. / Bellofram	Archived	03/10/2023 3:56 PM	NOI	390c3ccc-bb50-4b6e-baab-feae27387af9

Details

Compare Print

NPDES FORM 6100-045	EPA	Notice of Intent (NOI) for NPDES Permit Coverage under the EPA Region 1 General Permit for Dewatering and Remediation Discharges (MAG910000, NHG910000, CTG910000, RIG910000, and VTG910000)	Form Approved. OMB No. 2040-0004 Exp. 03/31/2022

Permit Information

Master Permit Number MAG910000

NPDES ID: MAG912064

Public Availability of Information Submitted on and with General Permit Reports
EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESeReporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Eligibility Information

State/territory where your site is discharging: MA

Does your site discharge to federally recognized Indian Country lands? No

Are you a Federal Operator? No

Is the proposed discharge to a Water of the United States, either directly, or indirectly such as via an MS4? Yes

Select all activities that this site is requesting coverage for:
Site Remediation

Are you requesting coverage for any of the following wastewaters? Yes

- Groundwater
- Stormwater
- Potable Water
- Surface Water

Have discharges from your site been previously covered under a NPDES permit? Yes

↳ **Enter the NPDES ID of this permit coverage:** MAG910026

Are you a new source discharger as defined in 40 CFR §122.2 (https://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=2c38bb6a9aadc6c054be9d65ce506fe7&mc=true&n=pt40.24.122&r=PART&ty=HTML#se40.24.122_12)?
No

Does your site discharge to Outstanding Resource Waters (ORWS) as defined in Massachusetts by 314 CMR 4.06, including Public Water Supplies 314 CMR 4.06(1)(d)1? No

Does your site discharge to Ocean Sanctuaries, as defined at 302 CMR 5.00? No

Does your site discharge to territorial seas, as defined by Section 502 of the CWA? No

Does your site discharge to a river designated as a Wild and Scenic River that is not in accordance with 16 U.S.C. 1271 et seq? See Part 1.4 for more information. No

Are there remediation or dewatering discharges from your site resulting from on-site response action conducted pursuant to §§104, 106, 120, 121 or 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)?
No

Does your site discharge to a Publicly Owned Treatment Works (POTW) which are permitted under Section 402 of the CWA? No

Does your site discharge dredge-related waters where the United States Army Corps of Engineers (ACE) authorizes the discharge of pollutants under a CWA §404 permit? No

Operator Information

Operator Formal Name: Tetra Tech Inc.

Operator Organization's Mailing Address:

Address Line 1: 100 Nickerson Rd.

Address Line 2:

City: Marlborough

ZIP/Postal Code: 01752

State: MA

County or Similar Division: Middlesex

Operator Point of Contact Information

First Name Middle Initial Last Name: Thomas Nunno

Title: Licensed Site Professional

Phone: 978-697-4909 **Ext.:**

Email: thomas.nunno@tetratech.com

Is your site owned by a different entity? Yes

Site Owner Name: 3 VDG Owner LLC

Owner Contact Information

First Name Middle Initial Last Name: Joseph Ferracane

Title: Site Owner Representative

Phone: 617-991-4217 **Ext.:**

Email: jferracane@jumbocapital.com

Owner Address Information

Address Line 1: 1900 Crown Colony Drive

Address Line 2:

City: Quincy

ZIP/Postal Code: 02169

State: MA

County or Similar Division: Norfolk

Does this site have additional operators (co-permittees) with active or pending requests for coverage under this general permit? No

Site Information

Site Information

Site Name: Former High Voltage Engineering Corp. / Bellofram

Address Line 1: 3 Van de Graaff Drive

Address Line 2:

City: Burlington

ZIP/Postal Code: 01803

State: MA

County or Similar Division: Middlesex

Latitude/Longitude for the Site

Latitude/Longitude: 42.479391°N, 71.1987°W

What is the ownership type of the site? Privately Owned Facility

Is a State Remediation Program applicable to your site? Yes

List all release tracking/license/permit numbers and activity use limitations:

RGP MAG910026, RTN 3-0981, RTN 3-36880

Site Description

Provide a written description of operation including site history/origin, the purpose of the activities conducted at the site, how the operation will generate wastewater, the pollutants present (i.e., detected in environmental samples at any concentration), and the distribution of these pollutants across the site (i.e., type of media/phase, spatial distribution). Must include a description of any pollutants present in soil or sediment, if that soil or sediment has not been removed from the site and will be disturbed during site activities.

The former Bellofram and HVEC sites are located in Burlington, Massachusetts, approximately 10 miles northwest of Boston. Together, the sites are bordered on the north by Route 128, to the west by the dataCon Property and to the south by Blanchard Road. These former manufacturing facilities have been redeveloped for office use and are currently owned by 3 VDG Owner, LLC and Oracle Corporation. Access to the sites is from Van de Graaff Drive. The Site is located within the Vine Brook watershed and a portion of the site is within the Zone II for the Vine Brook well field which supplies water to the Town of Burlington. Prior to 2002 the two sites had separate groundwater extraction and treatment systems to remedy the groundwater conditions. The two systems were combined and expanded in June 2002. The former HVEC system began continuous operation in September 1994, and the former Bellofram system began continuous operation in May 1995. At the HVEC site, groundwater was pumped from four extraction wells at a combined average rate of approximately 15 gallons per minute (gpm). The water was treated by air-stripping and aqueous-phase granular activated carbon (GAC). Vapor-phase GAC was used to treat the air-stripper off-gas. Treated water was discharged to a retention pond adjacent to South Bedford Street, which is outside of the Vine Brook watershed. Between January 1995 and January 2002 (the date the HVEC treatment system was shut down), a portion of the HVEC treated water was re-injected up-gradient of extraction well PW-503. At the former Bellofram site, groundwater was pumped from one extraction well at an average rate of 16.8 gpm. The water was treated using air stripping. The air stripper off-gas was treated with GAC. Groundwater was discharged to a small wetland, located on the former Bellofram property, in the Vine Brook watershed. In response to MassDEP concerns with the concentrations of chemicals of concern (COCs) detected in groundwater collected from beneath the western portion of the HVEC site, near the Zone II boundary of the Vine Brook well field, and the effectiveness of the extraction system at preventing off-site migration of impacted groundwater, a technical assessment and conceptual plan for remedial system enhancements was prepared in 1998 (HSI GeoTrans, 1998). On December 7, 1998, the MassDEP conditionally approved a plan for remedial system enhancements (MassDEP, 1998) which included installation of additional monitoring and extraction wells, and construction of a combined groundwater treatment system. Construction of the combined treatment system began in January 2002 and it began operation on June 17, 2002. The treatment system consists of a low-profile air stripper with a design flow rate of 65 gpm. The vapor-phase VOCs were treated by a GAC system through May 2019. In February 2019, Tetra Tech submitted an LSP opinion detailing an MCP Method 3 Risk Characterization regarding the need for system off-gas controls. The findings concluded that that “No Significant Risk” of harm to human health, public welfare, safety or the environment results from the untreated off-gas emissions from the air stripper under current site configuration and neighboring land uses. The vapor-phase treatment component was removed from the system in May 2019. Figure 1 3 is a process flow diagram of the treatment system. Currently, eight extraction wells pump impacted groundwater to the treatment system for treatment. Groundwater beneath the former HVEC and the former Bellofram properties has been impacted by the release of the following volatile and semi-volatile organic compounds (VOC/SVOC): • tetrachloroethylene (PCE), • trichloroethylene (TCE), • 1,1,1 trichloroethane (1,1,1-TCA), • 1,1 dichloroethylene (1,1-DCE), • 1,1 dichloroethane (1,1-DCA), • cis-1,2-dichloroethylene (cis-1,2-DCE), • trans-1,2-dichloroethylene (trans-1,2-DCE), • 1,2-dichloroethane (1,2-DCA), • 1,4-dioxane, • vinyl chloride (VC)., and PFAS

Discharge Information

Discharge Point 002: Vine Brook (MA83-06) Class B

This discharge point was previously Discharge Point ID 001

Are you requesting to change monitoring frequency to annually? No

See section 4.1.2.1 of the General Permit for eligibility rules and required attachments for requesting a reduction in monitoring frequency. Required attachments can be provided in the Additional Information section.

Is this discharge an emergency discharge? No

Discharge Point Daily Maximum Flow (MGD): 0.0936

What was the State determination for your receiving water critical low flow (MGD)? No receiving water critical low flow authorized (i.e., no dilution factor)

Select all source waters that this site is requesting coverage for:

- Groundwater

Did this discharge point reach the receiving water directly to an on-site system owned by the owner/operator? Yes

Describe how the discharge enters the receiving water, from the point of treatment to the receiving water. Make sure to identify any catch basins.

Direct from treatment via 6 inch outfall pipe discharging to wetlands which is a tributary to Vine Brook

Latitude and Longitude of the Receiving Water Discharge Point: 42.479912°N, 71.199674°W

Receiving Water

Waterbody Name:
Vine Brook

Is this waterbody fresh water or salt water? Fresh Water

Select your Waterbody classification: Class B

➜ **What is the waterbody type?** River/Stream

Does this discharge point reach a cold water fishery or a warm water fishery? Yes

➜ **Please indicate if it discharges to a cold water fishery or a warm water fishery.** Cold water fishery

Does this discharge point reach a drinking water supply? No

What was the recorded pH of the receiving water sample? 7.14

What was the recorded temperature (°F) of the receiving water sample? 64.94

What was the recorded hardness in mg/L (CaCO3) of the receiving water sample? 170

Have alternative pH effluent limits been approved? No

Wastewater Type Sampling Requirements

Groundwater Sample Results

Parameter	Present in Soil Only?	Value Qualifier	Maximum Influent Concentration	Test Method
Total Suspended Solids (mg/L)	false	=	17	
Turbidity (NTU)	false	=	0.72	
Total Nitrogen [as N] (mg/L)	false	=	3.7	
Total Dissolved Solids (mg/L)	false	=	1630	
Chloride, total recoverable (mg/L)	false	=	858000	
Copper Total Recoverable (µg/L)	false	=	11.1	
Hydrocarbons, total petroleum (mg/L)	false	<	5	1664A
Arsenic Total Recoverable (µg/L)	false	=	1.8	
Iron Total Recoverable (µg/L)	false	=	409	
Lead Total Recoverable (µg/L)	false	=	289000	
Cyanide, total as [CN] (µg/L)	false	<	10	335.4

Is the receiving water listed as impaired on the 303(d) list (https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state)? Yes

➜ **Select the cause(s) of impairment.**

- Fecal Coliform

Do you have any additional parameters listed in Appendix E or G in your discharge that are not listed in the sample table(s) above? Yes

➜ **Select all parameters from Appendix E or G in your discharge that are not listed in the sample table(s) above.**

- Selenium, total
- Nickel Total Recoverable
- Silver, total
- Zinc Total Recoverable
- Cadmium, total
- Antimony
- Chromium III
- Carbon Tetrachloride
- 1,2 Dichloroethane
- Benzene
- Methylene Chloride
- 1,1 Dichloroethane
- 1,1 Dichloroethylene
- 1,1,1 Trichloroethane
- 1,1,2 Trichloroethane
- 1,2 Dichlorobenzene
- 1,3 Dichlorobenzene
- 1,4 Dichlorobenzene
- Phenol
- Vinyl Chloride
- Trichloroethylene
- Total BTEX
- Perfluorooctanoic acid (PFOA)
- Perfluoroheptanoic acid (PFHpA)
- Perfluorononanoic acid (PFNA)
- Perfluorodecanoic acid (PFDA)
- Perfluorohexanesulfonic acid (PFHxS)
- Perfluorooctanesulfonic acid (PFOS)
- Mercury Total Recoverable
- cis-1,2 Dichloroethylene
- Chromium VI
- Acetone
- 1,4 Dioxane

Technology, Water Quality, and Impaired Waters Limits (Appendix E and G)

Concentration Monitoring

Parameter	Unit of Measure	Limit 1	Statistical Base	Required Monitoring?	Limit 2	Statistical Base	Required Monitoring?
Antimony	µg/L	206	Monthly Average			Daily Maximum	true
Cadmium, total	µg/L	10.2	Monthly Average			Daily Maximum	true
Chromium III	µg/L	323	Monthly Average			Daily Maximum	true
Chromium VI	µg/L	323	Monthly Average			Daily Maximum	true
Mercury Total Recoverable	µg/L	0.739	Monthly Average			Daily Maximum	true
Nickel Total Recoverable	µg/L	1450	Monthly Average			Daily Maximum	true
Selenium, total	µg/L	235.8	Monthly Average			Daily Maximum	true
Silver, total	µg/L	35.1	Monthly Average			Daily Maximum	true
Zinc Total Recoverable	µg/L	420	Monthly Average			Daily Maximum	true
Total BTEX	µg/L	100	Monthly Average			Daily Maximum	true
Acetone	µg/L	7.97	Monthly Average			Daily Maximum	true
Phenol	µg/L	1080	Monthly Average			Daily Maximum	true
Carbon Tetrachloride	µg/L	4.4	Monthly Average			Daily Maximum	true

Concentration Monitoring							
Parameter	**Unit of Measure**	**Limit 1**	**Statistical Base**	**Required Monitoring?**	**Limit 2**	**Statistical Base**	**Required Monitoring?**
1,2 Dichlorobenzene	µg/L	600	Monthly Average			Daily Maximum	true
1,3 Dichlorobenzene	µg/L	320	Monthly Average			Daily Maximum	true
1,4 Dioxane	µg/L	200	Monthly Average			Daily Maximum	true
1,4 Dichlorobenzene	µg/L	5	Monthly Average			Daily Maximum	true
1,1 Dichloroethane	µg/L	70	Monthly Average			Daily Maximum	true
1,1 Dichloroethylene	µg/L	3.2	Monthly Average			Daily Maximum	true
1,2 Dichloroethane	µg/L	5	Monthly Average			Daily Maximum	true
Trichloroethylene	µg/L	5	Monthly Average			Daily Maximum	true
cis-1,2 Dichloroethylene	µg/L	70	Monthly Average			Daily Maximum	true
Vinyl Chloride	µg/L	2	Monthly Average			Daily Maximum	true
Perfluorohexanesulfonic acid (PFHxS)	µg/L		Monthly Average			Daily Maximum	true
Perfluoroheptanoic acid (PFHpA)	µg/L		Monthly Average			Daily Maximum	true
Perfluorononanoic acid (PFNA)	µg/L		Monthly Average			Daily Maximum	true
Perfluorooctanesulfonic acid (PFOS)	µg/L		Monthly Average			Daily Maximum	true
Perfluorooctanoic acid (PFOA)	µg/L		Monthly Average			Daily Maximum	true
Perfluorodecanoic acid (PFDA)	µg/L		Monthly Average			Daily Maximum	true
Benzene	µg/L	5	Monthly Average	false		Daily Maximum	true
Methylene Chloride	µg/L	4.6	Monthly Average	false		Daily Maximum	true
1,1,1 Trichloroethane	µg/L	200	Monthly Average	false		Daily Maximum	true
1,1,2 Trichloroethane	µg/L	5	Monthly Average	false		Daily Maximum	true

Do you have any other additional parameters to disclose as required under part 2.1.3 case by case limitations? No

Discharge Limitations Information

Concentration Limits

Discharge Point	**Parameter Name (code)**	**Reason for Limit**	**Unit of Measure**	**Limit 1**	**Statistical Base**	**Required Monitoring?**	**Limit 2**	**Statistical Base**	**Required Monitoring?**	**Were you provided an Adjusted Limit Value by the state?**	**Select the Limit(s) that were adjusted by the state to enter the adjusted Limit Values**
002	pH (00400)	Wastewater Limit	SU	6.5	Minimum	No	8.3	Maximum	No	No	
002	Total Suspended Solids (00530)	Wastewater Limit	mg/L				30	Daily Maximum	No	No	
002	Turbidity (00070)	Wastewater Limit	NTU				50	Daily Maximum	No	No	
002	Total Nitrogen [as N] (00600)	Wastewater Limit	mg/L				10	Daily Maximum	No	No	
002	Total Dissolved Solids (70296)	Wastewater Limit	mg/L				500	Daily Maximum	No	No	
002	Chloride, total recoverable (00943)	Water Quality Limit	mg/L	230	Monthly Average	No	860	Daily Maximum	No	No	
002	Copper Total Recoverable (01119)	Water Quality Limit	µg/L	15.2924884	Monthly Average	No	24.0412542	Daily Maximum	No	No	
002	Hydrocarbons, total petroleum (82181)	Wastewater Limit	mg/L					Daily Maximum	Yes	No	

Discharge Point	Parameter Name (code)	Reason for Limit	Unit of Measure	Limit 1	Statistical Base	Required Monitoring?	Limit 2	Statistical Base	Required Monitoring?	Were you provided an Adjusted Limit Value by the state?	Select the Limit(s) that were adjusted by the state to enter the adjusted Limit Values
002	Arsenic Total Recoverable (00978)	Wastewater Limit	µg/L				104	Daily Maximum	No	No	
002	Iron Total Recoverable (00980)	Water Quality Limit	µg/L	1000	Monthly Average	No	5000	Daily Maximum	No	No	
002	Lead Total Recoverable (01114)	Water Quality Limit	µg/L	4.38152214	Monthly Average	No	112.43735	Daily Maximum	No	No	
002	Cyanide, total as [CN] (00720)	Water Quality Limit	µg/L	5.2	Monthly Average	No	22	Daily Maximum	No	No	
002	Antimony (01268)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	206	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Cadmium, total (01113)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	10.2	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Chromium III (04262)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	323	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Chromium VI (78247)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	323	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Mercury Total Recoverable (71901)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	0.739	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Nickel Total Recoverable (01074)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	1450	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Selenium, total (00981)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	235.8	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Silver, total (01079)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	35.1	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Zinc Total Recoverable (01094)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	420	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Total BTEX (49491)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	100	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Acetone (81552)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	7.97	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Phenol (34694)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	1080	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Carbon Tetrachloride (32102)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	4.4	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,2 Dichlorobenzene (34536)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	600	Monthly Average	No		Daily Maximum	Yes	N/A	N/A

Discharge Point	Parameter Name (code)	Reason for Limit	Unit of Measure	Limit 1	Statistical Base	Required Monitoring?	Limit 2	Statistical Base	Required Monitoring?	Were you provided an Adjusted Limit Value by the state?	Select the Limit(s) that were adjusted by the state to enter the adjusted Limit Values
002	1,3 Dichlorobenzene (34566)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	320	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,4 Dioxane (82388)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	200	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,4 Dichlorobenzene (34571)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	5	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,1 Dichloroethane (34496)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	70	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,1 Dichloroethylene (34501)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	3.2	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,2 Dichloroethane (32103)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	5	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Trichloroethylene (39180)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	5	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	cis-1,2 Dichloroethylene (77093)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	70	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Vinyl Chloride (39175)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	2	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	Perfluorohexanesulfonic acid (PFHxS) (52605)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L					Daily Maximum	Yes	N/A	N/A
002	Perfluoroheptanoic acid (PFHpA) (51625)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L					Daily Maximum	Yes	N/A	N/A
002	Perfluorononanoic acid (PFNA) (51626)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L					Daily Maximum	Yes	N/A	N/A
002	Perfluorooctanesulfonic acid (PFOS) (52606)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L					Daily Maximum	Yes	N/A	N/A
002	Perfluorooctanoic acid (PFOA) (51521)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L					Daily Maximum	Yes	N/A	N/A
002	Perfluorodecanoic acid (PFDA) (51629)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L					Daily Maximum	Yes	N/A	N/A
002	Benzene (34030)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	5	Monthly Average	No		Daily Maximum	Yes	N/A	N/A

Discharge Point	Parameter Name (code)	Reason for Limit	Unit of Measure	Limit 1	Statistical Base	Required Monitoring?	Limit 2	Statistical Base	Required Monitoring?	Were you provided an Adjusted Limit Value by the state?	Select the Limit(s) that were adjusted by the state to enter the adjusted Limit Values
002	Methylene Chloride (34423)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	4.6	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,1,1 Trichloroethane (34506)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	200	Monthly Average	No		Daily Maximum	Yes	N/A	N/A
002	1,1,2 Trichloroethane (34511)	Technology, Water Quality, and Impaired Waters Limit (user entered)	µg/L	5	Monthly Average	No		Daily Maximum	Yes	N/A	N/A

Quantity Limits

Discharge Point	Parameter Name (code)	Reason for Limit	Unit of Measure	Limit 1	Statistical Base
002	Flow (50050)	Wastewater Limit	MGD	0.0936	Daily Maximum

Additional Discharge Information Attachments *

Attachment is required if Alt pH is entered.

Attachment is required if state provided critical low flow (dilution factor) is selected.

If Indirect Discharge selected, please attach the indirect discharge analysis.

Name	Created Date	Size
fmr-high-voltage-bellofram-sites-burlington-mag910026-auth.pdf	07/10/2023 3:35 PM	1.45 MB

Treatment Information

Do you plan on applying treatment to your effluent prior to discharging? Yes

Row ID: 1

Indicate the type(s) of treatment that will be applied to your effluent prior to discharge: (select all that apply)

- Air Stripping

Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.

Identify each major treatment component: (select all that apply)

- Air Stripping Unit

Is this treatment plant a mobile unit? No

Please select the discharge point that this treatment is being applied to:

- 002

Do you plan on applying chemical(s) or additive(s) to the discharge(s)? Yes

Row ID: 1

Name of Chemical: Corrosion/Scale Inhibitors

Estimated maximum concentration (mg/L): 40

Select all parameters listed that are ingredients in this chemical:

- Total Dissolved Solids

Method of Application: Meter

Please select the discharge point that this chemical is being applied to:

- 002

Schematic of Flow

Attach a schematic of flow including the following: the direction of water flow from the point of generation to the receiving water, the source water(s) with estimated volume noted, process water(s) with estimated volume noted, any treatment systems or processes with design flow noted, discharge point(s) with estimated volume noted, sampling points if different than discharge points, receiving water(s). ✱

Safety Data Sheet (SDS)

Attach the Safety Data Sheet (SDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive ✱

Name	Created Date	Size
Figures.pdf	07/10/2023 3:35 PM	2.44 MB
850.pdf	07/10/2023 3:35 PM	310.29 KB

Additional Information

Endangered Species Act

ESA eligibility for species under jurisdiction of USFWS

Indicate which criterion applies to the proposed discharge(s) under this general permit:

Criterion C: Using the best scientific and commercial data available, the effect of the discharges and related activities on listed species and critical habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the applicant and affirmed by EPA, that the discharges and related activities will have “no affect” on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the FWS.

➔ **Has documentation of the “no effect" finding been attached? Use the attachment section below.** No

ESA eligibility for species under jurisdiction of NOAA Fisheries

Is the discharge to: the Connecticut River between the Massachusetts/Connecticut state line and Turners Falls, MA; the Taunton River; the Merrimack River between Lawrence, MA and the Atlantic Ocean; the Piscataqua River including the Salmon Falls and Cocheco Rivers; or a marine water?

No

National Historic Preservation Act

Indicate which criterion applies to the proposed discharge(s) under this general permit:

Criterion A: No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.

Has the documentation been attached? Use the attachment section below. No

Environmental Justice Executive Order(s)

Indicate which criterion applies to the proposed discharge(s) under this general permit: EJ Criterion A: No environmental justice indices are in proximity to the discharges or related activities.

Has the documentation been attached? Use the attachment section below. No

Has the Municipal Review been attached? Use the attachment section below to attach any discharge permit issued by a municipality or indicate if a permit will be issued upon approval from EPA; Attach any written determination by a Conservation Commission, i.e., Order of Conditions.

Yes

State Antidegradation Review

Has the State Antidegradation Review been attached? Use the attachment section below. No

SWPP/BMPP

Indicate which criterion applies to the proposed discharge(s) under this general permit: Existing discharge: A BMPP meeting the requirements of this general permit has been developed and implemented.

By selecting this certification statement, the signatory(ies) confirms that the BMPs specified in Part 2.5.2 of the RGP were met and, if discharges will continue, the BMPP meets the minimum requirements specified in Part 2.5.1 of the RGP and addresses ALL BMPs specified in Part 2.5.2 of the RGP, which apply to ALL SITES.

Has notification been provided to the appropriate State? Yes

Has notification been provided to the municipality in which the discharge is located? Yes

Please use the space below to provide any other relevant information related to your site. You can add one or more additional attachments.

Reason for Change and Supporting Documentation:

Provide a brief narrative statement that describes the change. Include any written rationale or supporting documentation for the change, if required, or if otherwise being provided. Attach monitoring data, if required, or if otherwise being provided, in accordance with the instructions in Appendix VIII of the General Permit.

New Permit Did not reflect all selected parameters within the Discharge Information section. Resubmitting per the direction of Shauna Little.

Name	Created Date	Size

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Joseph D. Ferracane

Certifier Title: Mr

Certifier Email: jferracane@jumbocapital.com

Certified On: 09/28/2023 10:00 AM ET

APPENDIX B

AQUIFER AND WATER RESOURCES MAP

Town of

Burlington, MA

Incorporated February 28, 1799

Aquifer and Water Resources

Zoning Overlay Map

2017

Original district boundaries deliniated in conjunction with SEA Consultants Inc. as part of the Burlington Vine Brook Aquifer Report, January 9, 1996.

The GIS data represented in this map was adopted by the Town under Article 3 of the Warrant for Town Meeting, January 23, 2017.

Map created for the Burlington Planning Department, last revised February 23, 2017.

Billerica

Wilmington

Bedford

Lexington

Woburn

BURLINGTON PLANNING BOARD

John P. Kelly Name — Chairman

Paul Raymond Name — Vice Chairman

Name — Member Clerk

Name

Name

Name

Name

LEGEND

Overlay District	Base Map
Aquifer	Major Road
Water Resource	Public / Private Road
	Parcel Boundary
	River / Stream
	Water Body
	Town Boundary

0 1,000 2,000 3,000 4,000 5,000 Feet

0 0.5 1 Miles

APPENDIX C

GROUNDWATER CERTIFICATES OF ANALYSES

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Tetra Tech

HVEC, 3 Van de Graaf Dr, Burlington, MA

117-367086-25001

SGS Job Number: JE24410

Sampling Dates: 12/02/25 - 12/03/25



Report to:

Tetra Tech
100 Nickerson Road
Marlborough, MA 01752
Max.Tuttle@tetratech.com; Thomas.Nunno@tetratech.com;
Mike.Farrell@tetratech.com
ATTN: Maxwell Tuttle

Total number of pages in report: 244

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Kelly Ramos 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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START SURVEY

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JE24410-1	12/02/25	09:35	CB	12/03/25	AQ	Ground Water	B-105B
JE24410-1A	12/02/25	09:35	CB	12/03/25	AQ	Ground Water	B-105B
JE24410-1AD	12/02/25	09:35	CB	12/03/25	AQ	Water Dup/MSD	B-105B
JE24410-1AS	12/02/25	09:35	CB	12/03/25	AQ	Water Matrix Spike	B-105B
JE24410-1D	12/02/25	09:35	CB	12/03/25	AQ	Water Dup/MSD	B-105B
JE24410-1S	12/02/25	09:35	CB	12/03/25	AQ	Water Matrix Spike	B-105B
JE24410-2	12/02/25	12:40	CB	12/03/25	AQ	Ground Water	B-107
JE24410-3	12/02/25	10:30	CB	12/03/25	AQ	Ground Water	B-602
JE24410-4	12/02/25	08:20	CB	12/03/25	AQ	Ground Water	CES-11D
JE24410-5	12/02/25	08:25	CB	12/03/25	AQ	Ground Water	CES-11D DUP
JE24410-6	12/03/25	09:55	CB	12/03/25	AQ	Ground Water	ERM-12M
JE24410-7	12/02/25	10:25	CB	12/03/25	AQ	Ground Water	ERM-14R

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Summary
(continued)

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JE24410-8	12/02/25	11:40	CB	12/03/25	AQ	Ground Water	GZ/DC-5D
JE24410-9	12/02/25	10:50	CB	12/03/25	AQ	Ground Water	JTB 402
JE24410-10	12/02/25	09:51	CB	12/03/25	AQ	Ground Water	JTB-404
JE24410-11	12/03/25	12:10	CB	12/03/25	AQ	Ground Water	MW-EWC
JE24410-12	12/02/25	10:05	CB	12/03/25	AQ	Ground Water	MW-EW-N
JE24410-13	12/03/25	08:45	CB	12/03/25	AQ	Ground Water	MW/EW-S
JE24410-14	12/03/25	11:25	CB	12/03/25	AQ	Ground Water	MW-201A
JE24410-15	12/03/25	12:10	CB	12/03/25	AQ	Ground Water	MW-201B
JE24410-16	12/02/25	13:50	CB	12/03/25	AQ	Ground Water	MW-202A
JE24410-17	12/03/25	07:15	CB	12/03/25	AQ	Ground Water	MW-202B
JE24410-18	12/03/25	13:40	CB	12/03/25	AQ	Ground Water	MW-203A
JE24410-19	12/03/25	13:35	CB	12/03/25	AQ	Ground Water	MW-203B
JE24410-20	12/02/25	13:50	CB	12/03/25	AQ	Ground Water	MW-204A

Sample Summary
(continued)

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JE24410-21	12/02/25	14:20	CB	12/03/25	AQ	Ground Water	MW-204B
JE24410-22	12/03/25	09:55	CB	12/03/25	AQ	Ground Water	MW-603
JE24410-23	12/03/25	10:45	CB	12/03/25	AQ	Ground Water	MW-604
JE24410-24	12/02/25	08:55	CB	12/03/25	AQ	Ground Water	MW-605
JE24410-25	12/03/25	14:10	CB	12/03/25	AQ	Ground Water	SW-4
JE24410-26	12/03/25	14:15	CB	12/03/25	AQ	Equipment Blank	EQ-BLANK
JE24410-27	12/02/25	11:00	CB	12/03/25	AQ	Field Blank Water	FIELD BLANK 1
JE24410-28	12/03/25	14:20	CB	12/03/25	AQ	Field Blank Water	FIELD BLANK 2
JE24410-29	12/03/25	14:20	CB	12/03/25	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech **Job No:** JE24410

Site: HVEC, 3 Van de Graaf Dr, Burlington, MA **Report Date** 12/21/2025 5:25:59 P

On 12/03/2025, 25 sample(s), 1 Trip Blank(s), 1 Equip. Blank(s) and 2 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 1.4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE24410 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VL11525

- All samples were analyzed within the recommended method holding time.
- Sample(s) JE24410-1MS, JE24410-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JE24410-14: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.
- JE24410-12: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-11: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-16: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-20: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-24: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-13: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-1: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-3: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-21: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-5: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-10: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-6: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-18: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-7: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-9: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-15: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VL11525

- JE24410-4: Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
- JE24410-18 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-13 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-12 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-15 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-20 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-16 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-21 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-11 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-10 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-14 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-24 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-5 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-6 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-9 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- VL11525-BSD for trans-1,2-Dichloroethene: Outside control limits.
- VL11525-BSD for 1,1-Dichloroethene: Outside control limits.
- VL11525-BSD for Methylene chloride: Outside control limits.
- Not all RLs meet MCP requirement.

Matrix: AQ **Batch ID:** VL11527

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JE24410-14: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.
- JE24410-29: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.
- JE24410-17: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.
- JE24410-15: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.
- JE24410-23: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.
- JE24410-22: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.
- JE24410-19: Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** VL11527

- JE24410-29 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-23 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-22 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-19 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JE24410-17 for 1,2-Dibromo-3-chloropropane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- Not all RLs meet MCP requirement.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP69534

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE24410-2DUP were used as the QC samples indicated.
- The duplicate RPD(s) for Perfluorobutanesulfonic acid are outside control limits.
- JE24410-6: Dilution required (EIS recovery standard failure).
- JE24410-6 for d5-EtFOSAA: Outside control limits.

Matrix: AQ **Batch ID:** OP69620

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE24410-1AMS, JE24410-1AMSD were used as the QC samples indicated.
- The matrix spike (MS) recovery(s) of Perfluorobutanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP69515A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE24410-1MS, JE24410-1MSD were used as the QC samples indicated.
- JE24410-1: Sample reextracted outside the holding time for confirmation.
- JE24410-6: Sample reextracted outside the holding time for confirmation.
- JE24410-18: Sample reextracted outside the holding time for confirmation.
- JE24410-13: Sample reextracted outside the holding time for confirmation.
- JE24410-14: Sample reextracted outside the holding time for confirmation.
- JE24410-11: Sample reextracted outside the holding time for confirmation.
- JE24410-23: Sample reextracted outside the holding time for confirmation.
- JE24410-19: Sample reextracted outside the holding time for confirmation.
- JE24410-15: Sample reextracted outside the holding time for confirmation.
- Only report 1,4-Dioxane

Matrix: AQ **Batch ID:** OP69611A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only report 1,4-Dioxane

Matrix: AQ **Batch ID:** OP69732A

- The data for SW846 8270E BY SIM meets quality control requirements.
- JE24410-14: Sample extracted outside the holding time. Confirmation run.
- JE24410-1: Sample extracted outside the holding time. Confirmation run.
- JE24410-13: Sample extracted outside the holding time. Confirmation run.
- JE24410-15: Sample extracted outside the holding time. Confirmation run.
- JE24410-11: Sample extracted outside the holding time. Confirmation run.
- JE24410-23: Sample extracted outside the holding time. Confirmation run.
- JE24410-6: Sample extracted outside the holding time. Confirmation run.
- JE24410-18: Sample extracted outside the holding time. Confirmation run.
- JE24410-19: Sample extracted outside the holding time. Confirmation run.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE24410-1	**B-105B**					
cis-1,2-Dichloroethene [a]		1.0	1.0		ug/l	SW846 8260D
JE24410-1A	**B-105B**					
Perfluorobutanoic acid		0.0194	0.0084		ug/l	EPA 1633
Perfluoropentanoic acid		0.0230	0.0042		ug/l	EPA 1633
Perfluorohexanoic acid		0.0213	0.0021		ug/l	EPA 1633
Perfluoroheptanoic acid		0.0153	0.0021		ug/l	EPA 1633
Perfluorooctanoic acid		0.0384	0.0021		ug/l	EPA 1633
Perfluorononanoic acid		0.0360	0.0021		ug/l	EPA 1633
Perfluorodecanoic acid		0.0246	0.0021		ug/l	EPA 1633
Perfluoroundecanoic acid		0.0059	0.0021		ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0625	0.0021		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0042	0.0021		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0474	0.0021		ug/l	EPA 1633
PFOSA		0.0235	0.0021		ug/l	EPA 1633
JE24410-2	**B-107**					
Perfluorobutanoic acid		0.0096	0.0082		ug/l	EPA 1633
Perfluoropentanoic acid		0.0072	0.0041		ug/l	EPA 1633
Perfluorohexanoic acid		0.0054	0.0020		ug/l	EPA 1633
Perfluoroheptanoic acid		0.0066	0.0020		ug/l	EPA 1633
Perfluorooctanoic acid		0.0222	0.0020		ug/l	EPA 1633
Perfluorononanoic acid		0.0175	0.0020		ug/l	EPA 1633
Perfluorodecanoic acid		0.0038	0.0020		ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0025	0.0020		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.136	0.0020		ug/l	EPA 1633
JE24410-3	**B-602**					
No hits reported in this sample.						
JE24410-4	**CES-11D**					
cis-1,2-Dichloroethene [a]		3.9	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		45.8	1.0		ug/l	SW846 8260D
Trichloroethene [a]		2.9	1.0		ug/l	SW846 8260D
Perfluorohexanoic acid		0.0033	0.0022		ug/l	EPA 1633
Perfluoroheptanoic acid		0.0028	0.0022		ug/l	EPA 1633
Perfluorooctanoic acid		0.0054	0.0022		ug/l	EPA 1633
Perfluorononanoic acid		0.0050	0.0022		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0106	0.0022		ug/l	EPA 1633

Summary of Hits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE24410-5	**CES-11D DUP**					
cis-1,2-Dichloroethene [a]		2.5	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		28.8	1.0		ug/l	SW846 8260D
Trichloroethene [a]		2.1	1.0		ug/l	SW846 8260D
JE24410-6	**ERM-12M**					
1,1-Dichloroethane [a]		1.6	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [a]		4.5	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene [a]		2.8	1.0		ug/l	SW846 8260D
trans-1,2-Dichloroethene [a]		4.8	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		9.8	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		1.2	1.0		ug/l	SW846 8260D
Trichloroethene [a]		11.6	1.0		ug/l	SW846 8260D
Perfluorobutanoic acid		0.0336	0.0087		ug/l	EPA 1633
Perfluoropentanoic acid		0.0131	0.0044		ug/l	EPA 1633
Perfluorohexanoic acid		0.0105	0.0022		ug/l	EPA 1633
Perfluoroheptanoic acid		0.0102	0.0022		ug/l	EPA 1633
Perfluorooctanoic acid		0.0150	0.0022		ug/l	EPA 1633
Perfluorononanoic acid		0.0044	0.0022		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0043	0.0022		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0134	0.0022		ug/l	EPA 1633
1,4-Dioxane [b]		1.06	0.30		ug/l	SW846 8270E BY SIM
JE24410-7	**ERM-14R**					
1,1-Dichloroethane [a]		12.7	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [a]		41.3	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene [a]		1.8	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		109	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		174	1.0		ug/l	SW846 8260D
Trichloroethene [a]		5.4	1.0		ug/l	SW846 8260D
JE24410-8	**GZ/DC-5D**					
Perfluorobutanoic acid		0.0267	0.0086		ug/l	EPA 1633
Perfluoropentanoic acid		0.0312	0.0043		ug/l	EPA 1633
Perfluorohexanoic acid		0.0277	0.0021		ug/l	EPA 1633
Perfluoroheptanoic acid		0.0315	0.0021		ug/l	EPA 1633
Perfluorooctanoic acid		0.0623	0.0021		ug/l	EPA 1633
Perfluorononanoic acid		0.0372	0.0021		ug/l	EPA 1633
Perfluorodecanoic acid		0.0150	0.0021		ug/l	EPA 1633
Perfluoroundecanoic acid		0.0154	0.0021		ug/l	EPA 1633

Summary of Hits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perfluorobutanesulfonic acid		0.0034	0.0021		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0033	0.0021		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0121	0.0021		ug/l	EPA 1633
JE24410-9	**JTB 402**					
1,1-Dichloroethane [a]		1.6	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [a]		6.4	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		122	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		137	1.0		ug/l	SW846 8260D
Trichloroethene [a]		5.3	1.0		ug/l	SW846 8260D
JE24410-10	**JTB-404**					
cis-1,2-Dichloroethene [a]		1.2	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		436	10		ug/l	SW846 8260D
Trichloroethene [a]		5.3	1.0		ug/l	SW846 8260D
Perfluorobutanoic acid		0.0820	0.0085		ug/l	EPA 1633
Perfluoropentanoic acid		0.0697	0.0042		ug/l	EPA 1633
Perfluorohexanoic acid		0.0642	0.0021		ug/l	EPA 1633
Perfluoroheptanoic acid		0.113	0.0021		ug/l	EPA 1633
Perfluorooctanoic acid		0.225	0.0021		ug/l	EPA 1633
Perfluorononanoic acid		0.165	0.0021		ug/l	EPA 1633
Perfluorodecanoic acid		0.0594	0.0021		ug/l	EPA 1633
Perfluoroundecanoic acid		0.0209	0.0021		ug/l	EPA 1633
Perfluorododecanoic acid		0.0028	0.0021		ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0024	0.0021		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0067	0.0021		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0152	0.0021		ug/l	EPA 1633
JE24410-11	**MW-EWC**					
Tetrachloroethene [a]		76.5	1.0		ug/l	SW846 8260D
Trichloroethene [a]		6.8	1.0		ug/l	SW846 8260D
1,4-Dioxane [b]		0.869	0.30		ug/l	SW846 8270E BY SIM
JE24410-12	**MW-EW-N**					
Tetrachloroethene [a]		39.8	1.0		ug/l	SW846 8260D
Trichloroethene [a]		1.6	1.0		ug/l	SW846 8260D
JE24410-13	**MW/EW-S**					
1,1-Dichloroethane [a]		4.4	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [a]		22.9	1.0		ug/l	SW846 8260D

Summary of Hits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethene [a]		1.2	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		175	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		120	1.0		ug/l	SW846 8260D
Trichloroethene [a]		9.1	1.0		ug/l	SW846 8260D
1,4-Dioxane [b]		0.399	0.30		ug/l	SW846 8270E BY SIM
JE24410-14	**MW-201A**					
1,1-Dichloroethane [c]		9.2	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [c]		1.3	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene [c]		45.3	1.0		ug/l	SW846 8260D
Tetrachloroethene [c]		212	10		ug/l	SW846 8260D
Trichloroethene [c]		84.5	1.0		ug/l	SW846 8260D
1,4-Dioxane [b]		2.13	0.30		ug/l	SW846 8270E BY SIM
JE24410-15	**MW-201B**					
cis-1,2-Dichloroethene [c]		5.2	1.0		ug/l	SW846 8260D
Tetrachloroethene [c]		224	10		ug/l	SW846 8260D
Trichloroethene [c]		7.2	1.0		ug/l	SW846 8260D
JE24410-16	**MW-202A**					
Tetrachloroethene [a]		1.3	1.0		ug/l	SW846 8260D
Trichloroethene [a]		4.2	1.0		ug/l	SW846 8260D
Perfluorobutanoic acid		0.240	0.0086		ug/l	EPA 1633
Perfluoropentanoic acid		0.212	0.0043		ug/l	EPA 1633
Perfluorohexanoic acid		0.0535	0.0022		ug/l	EPA 1633
Perfluoroheptanoic acid		0.0529	0.0022		ug/l	EPA 1633
Perfluorooctanoic acid		0.0861	0.0022		ug/l	EPA 1633
Perfluorononanoic acid		0.0544	0.0022		ug/l	EPA 1633
Perfluorodecanoic acid		0.0133	0.0022		ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0031	0.0022		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0113	0.0022		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.133	0.0022		ug/l	EPA 1633
1,4-Dioxane		1.97	0.30		ug/l	SW846 8270E BY SIM
JE24410-17	**MW-202B**					
Tetrachloroethene [c]		1.0	1.0		ug/l	SW846 8260D
Trichloroethene [c]		4.3	1.0		ug/l	SW846 8260D
JE24410-18	**MW-203A**					
1,1-Dichloroethane [a]		6.9	1.0		ug/l	SW846 8260D

Summary of Hits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Trichloroethene [a]		1.3	1.0		ug/l	SW846 8260D
1,4-Dioxane [b]		3.26	0.30		ug/l	SW846 8270E BY SIM
JE24410-19	**MW-203B**					
1,1-Dichloroethane [c]		1.5	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [c]		3.7	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene [c]		20.4	1.0		ug/l	SW846 8260D
Tetrachloroethene [c]		10.9	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [c]		1.6	1.0		ug/l	SW846 8260D
Trichloroethene [c]		11.1	1.0		ug/l	SW846 8260D
1,4-Dioxane [b]		2.04	0.30		ug/l	SW846 8270E BY SIM
JE24410-20	**MW-204A**					
1,1-Dichloroethane [a]		2.5	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [a]		2.4	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene [a]		57.5	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		2.0	1.0		ug/l	SW846 8260D
Trichloroethene [a]		3.2	1.0		ug/l	SW846 8260D
Vinyl chloride [a]		7.5	1.0		ug/l	SW846 8260D
1,4-Dioxane		2.19	0.30		ug/l	SW846 8270E BY SIM
JE24410-21	**MW-204B**					
1,1-Dichloroethane [a]		2.5	1.0		ug/l	SW846 8260D
1,1-Dichloroethene [a]		3.3	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene [a]		27.4	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		45.6	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		2.1	1.0		ug/l	SW846 8260D
Trichloroethene [a]		30.7	1.0		ug/l	SW846 8260D
Vinyl chloride [a]		5.2	1.0		ug/l	SW846 8260D
1,4-Dioxane		2.56	0.30		ug/l	SW846 8270E BY SIM
JE24410-22	**MW-603**					
Tetrachloroethene [c]		8.8	1.0		ug/l	SW846 8260D
JE24410-23	**MW-604**					
Tetrachloroethene [c]		98.9	1.0		ug/l	SW846 8260D
Trichloroethene [c]		2.6	1.0		ug/l	SW846 8260D

Summary of Hits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE24410-24	**MW-605**					
1,1-Dichloroethene [a]		1.5	1.0		ug/l	SW846 8260D
cis-1,2-Dichloroethene [a]		1.0	1.0		ug/l	SW846 8260D
Tetrachloroethene [a]		30.8	1.0		ug/l	SW846 8260D
1,1,1-Trichloroethane [a]		5.6	1.0		ug/l	SW846 8260D
Trichloroethene [a]		4.2	1.0		ug/l	SW846 8260D
1,4-Dioxane		0.392	0.30		ug/l	SW846 8270E BY SIM
JE24410-25	**SW-4**					
Perfluorohexanoic acid		0.0031	0.0021		ug/l	EPA 1633
Perfluorooctanoic acid		0.0044	0.0021		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0029	0.0021		ug/l	EPA 1633
JE24410-26	**EQ-BLANK**					
No hits reported in this sample.						
JE24410-27	**FIELD BLANK 1**					
No hits reported in this sample.						
JE24410-28	**FIELD BLANK 2**					
No hits reported in this sample.						
JE24410-29	**TRIP BLANK**					
No hits reported in this sample.						

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.
(b) Sample reextracted outside the holding time for confirmation.
(c) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-105B		
Lab Sample ID:	JE24410-1	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375273.D	1	12/09/25 13:54	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-105B		
Lab Sample ID:	JE24410-1	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-105B		
Lab Sample ID:	JE24410-1	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2M145397.D	1	12/05/25 23:30	AC	12/04/25 16:30	OP69515A	E2M6568
Run #2 [b]	2M145664.D	1	12/13/25 15:09	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%	73%	29-124%
321-60-8	2-Fluorobiphenyl	70%	69%	23-122%
1718-51-0	Terphenyl-d14	77%	77%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B-105B
Lab Sample ID: JE24410-1A
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5Q5092.D	1	12/09/25 19:11	MH	12/09/25 15:00	OP69620	T5Q243
Run #2							

	Initial Volume	Final Volume
Run #1	475 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	0.0194	0.0084	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0230	0.0042	ug/l	
307-24-4	Perfluorohexanoic acid	0.0213	0.0021	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0153	0.0021	ug/l	
335-67-1	Perfluorooctanoic acid	0.0384	0.0021	ug/l	
375-95-1	Perfluorononanoic acid	0.0360	0.0021	ug/l	
335-76-2	Perfluorodecanoic acid	0.0246	0.0021	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0059	0.0021	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	0.0625	0.0021	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0042	0.0021	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0474	0.0021	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0084	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0084	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0084	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	0.0235	0.0021	ug/l	
31506-32-8	MeFOSA	ND	0.0021	ug/l	
4151-50-2	EtFOSA	ND	0.0021	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-105B		
Lab Sample ID:	JE24410-1A	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0021	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.021	ug/l	
1691-99-2	EtFOSE	ND	0.021	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0084	ug/l	
919005-14-4	ADONA	ND	0.0084	ug/l	
377-73-1	PFMPA	ND	0.0042	ug/l	
863090-89-5	PFMBA	ND	0.0042	ug/l	
151772-58-6	NFDHA	ND	0.0042	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0084	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0084	ug/l	
113507-82-7	PFEESA	ND	0.0042	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.053	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.053	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	79%		5-130%
	13C5-PFPeA	76%		40-130%
	13C5-PFHxA	79%		40-130%
	13C4-PFHpA	81%		40-130%
	13C8-PFOA	79%		40-130%
	13C9-PFNA	81%		40-130%
	13C6-PFDA	78%		40-130%
	13C7-PFUnDA	74%		30-130%
	13C2-PFDoDA	67%		10-130%
	13C2-PFTeDA	70%		10-130%
	13C3-PFBS	83%		40-135%
	13C3-PFHxS	87%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-105B		
Lab Sample ID:	JE24410-1A	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	80%		40-130%
	13C8-FOSA	88%		40-130%
	d3-MeFOSA	70%		10-130%
	d5-EtFOSA	64%		10-130%
	d3-MeFOSAA	82%		40-170%
	d5-EtFOSAA	72%		25-135%
	d7-MeFOSE	90%		10-130%
	d9-EtFOSE	88%		10-130%
	13C2-4:2FTS	84%		40-200%
	13C2-6:2FTS	79%		40-200%
	13C2-8:2FTS	87%		40-300%
	13C3-HFPO-DA	76%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B-107
Lab Sample ID: JE24410-2
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39477.D	1	12/05/25 18:34	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	489 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	0.0096	0.0082	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0072	0.0041	ug/l	
307-24-4	Perfluorohexanoic acid	0.0054	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0066	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	0.0222	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	0.0175	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	0.0038	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	0.0025	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.136	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0082	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0082	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0082	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-107		
Lab Sample ID:	JE24410-2	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0082	ug/l	
919005-14-4	ADONA	ND	0.0082	ug/l	
377-73-1	PFMPA	ND	0.0041	ug/l	
863090-89-5	PFMBA	ND	0.0041	ug/l	
151772-58-6	NFDHA	ND	0.0041	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0082	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0082	ug/l	
113507-82-7	PFEESA	ND	0.0041	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.051	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.051	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	101%		5-130%
	13C5-PFPeA	105%		40-130%
	13C5-PFHxA	100%		40-130%
	13C4-PFHpA	105%		40-130%
	13C8-PFOA	101%		40-130%
	13C9-PFNA	104%		40-130%
	13C6-PFDA	112%		40-130%
	13C7-PFUnDA	108%		30-130%
	13C2-PFDoDA	90%		10-130%
	13C2-PFTeDA	99%		10-130%
	13C3-PFBS	96%		40-135%
	13C3-PFHxS	100%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B-107
Lab Sample ID: JE24410-2
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	103%		40-130%
	13C8-FOSA	95%		40-130%
	d3-MeFOSA	88%		10-130%
	d5-EtFOSA	90%		10-130%
	d3-MeFOSAA	103%		40-170%
	d5-EtFOSAA	98%		25-135%
	d7-MeFOSE	100%		10-130%
	d9-EtFOSE	108%		10-130%
	13C2-4:2FTS	124%		40-200%
	13C2-6:2FTS	123%		40-200%
	13C2-8:2FTS	109%		40-300%
	13C3-HFPO-DA	95%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-602		
Lab Sample ID:	JE24410-3	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375274.D	1	12/09/25 14:19	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-602		
Lab Sample ID:	JE24410-3	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: B-602
Lab Sample ID: JE24410-3
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145554.D	1	12/10/25 13:16	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		29-124%
321-60-8	2-Fluorobiphenyl	73%		23-122%
1718-51-0	Terphenyl-d14	75%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CES-11D		
Lab Sample ID:	JE24410-4	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375275.D	1	12/09/25 14:44	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.9	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CES-11D		
Lab Sample ID:	JE24410-4	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	45.8	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	2.9	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CES-11D
Lab Sample ID: JE24410-4
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39478.D	1	12/05/25 18:49	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	460 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	ND	0.0087	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0043	ug/l	
307-24-4	Perfluorohexanoic acid	0.0033	0.0022	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0028	0.0022	ug/l	
335-67-1	Perfluorooctanoic acid	0.0054	0.0022	ug/l	
375-95-1	Perfluorononanoic acid	0.0050	0.0022	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0022	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0022	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0022	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0022	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0022	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	ND	0.0022	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0022	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0022	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0106	0.0022	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0022	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0022	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0022	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0022	ug/l	
31506-32-8	MeFOSA	ND	0.0022	ug/l	
4151-50-2	EtFOSA	ND	0.0022	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CES-11D		
Lab Sample ID:	JE24410-4	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0022	ug/l	
2991-50-6	EtFOSAA	ND	0.0022	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.022	ug/l	
1691-99-2	EtFOSE	ND	0.022	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0087	ug/l	
919005-14-4	ADONA	ND	0.0087	ug/l	
377-73-1	PFMPA	ND	0.0043	ug/l	
863090-89-5	PFMBA	ND	0.0043	ug/l	
151772-58-6	NFDHA	ND	0.0043	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0087	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0087	ug/l	
113507-82-7	PFEESA	ND	0.0043	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.054	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.054	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	91%		5-130%
	13C5-PFPeA	107%		40-130%
	13C5-PFHxA	102%		40-130%
	13C4-PFHpA	105%		40-130%
	13C8-PFOA	104%		40-130%
	13C9-PFNA	98%		40-130%
	13C6-PFDA	106%		40-130%
	13C7-PFUnDA	102%		30-130%
	13C2-PFDoDA	97%		10-130%
	13C2-PFTeDA	93%		10-130%
	13C3-PFBS	104%		40-135%
	13C3-PFHxS	100%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CES-11D
Lab Sample ID: JE24410-4
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	91%		40-130%
	13C8-FOSA	102%		40-130%
	d3-MeFOSA	90%		10-130%
	d5-EtFOSA	90%		10-130%
	d3-MeFOSAA	108%		40-170%
	d5-EtFOSAA	106%		25-135%
	d7-MeFOSE	98%		10-130%
	d9-EtFOSE	100%		10-130%
	13C2-4:2FTS	180%		40-200%
	13C2-6:2FTS	190%		40-200%
	13C2-8:2FTS	173%		40-300%
	13C3-HFPO-DA	80%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CES-11D
Lab Sample ID: JE24410-4
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145555.D	1	12/10/25 13:37	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		29-124%
321-60-8	2-Fluorobiphenyl	69%		23-122%
1718-51-0	Terphenyl-d14	63%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CES-11D DUP		
Lab Sample ID:	JE24410-5	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375276.D	1	12/09/25 15:09	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.5	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CES-11D DUP		
Lab Sample ID:	JE24410-5	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	28.8	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	2.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	94%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CES-11D DUP		
Lab Sample ID:	JE24410-5	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CES-11D DUP
Lab Sample ID: JE24410-5
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145556.D	1	12/10/25 13:58	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		29-124%
321-60-8	2-Fluorobiphenyl	54%		23-122%
1718-51-0	Terphenyl-d14	67%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ERM-12M
Lab Sample ID: JE24410-6
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375288.D	1	12/09/25 20:10	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	1.6	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	4.5	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	4.8	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ERM-12M		
Lab Sample ID:	JE24410-6	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	9.8	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.2	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	11.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ERM-12M		
Lab Sample ID:	JE24410-6	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ERM-12M
Lab Sample ID: JE24410-6
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39481.D	1	12/05/25 19:03	AM	12/05/25 10:00	OP69534	T2Q477
Run #2 [a]	1Q31139.D	5	12/09/25 16:42	AM	12/05/25 18:00	OP69534	T1Q492

	Initial Volume	Final Volume
Run #1	458 ml	5.0 ml
Run #2	458 ml	5.0 ml

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	0.0336	0.0087	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0131	0.0044	ug/l	
307-24-4	Perfluorohexanoic acid	0.0105	0.0022	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0102	0.0022	ug/l	
335-67-1	Perfluorooctanoic acid	0.0150	0.0022	ug/l	
375-95-1	Perfluorononanoic acid	0.0044	0.0022	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0022	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0022	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0022	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0022	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0022	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	ND	0.0022	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0043	0.0022	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0022	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0134	0.0022	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0022	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0022	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0022	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0022	ug/l	
31506-32-8	MeFOSA	ND	0.0022	ug/l	
4151-50-2	EtFOSA	ND	0.0022	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ERM-12M		
Lab Sample ID:	JE24410-6	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0022	ug/l	
2991-50-6	EtFOSAA	ND [b]	0.011	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.022	ug/l	
1691-99-2	EtFOSE	ND	0.022	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0087	ug/l	
919005-14-4	ADONA	ND	0.0087	ug/l	
377-73-1	PFMPA	ND	0.0044	ug/l	
863090-89-5	PFMBA	ND	0.0044	ug/l	
151772-58-6	NFDHA	ND	0.0044	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0087	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0087	ug/l	
113507-82-7	PFEESA	ND	0.0044	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.055	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.055	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	37%	38%	5-130%
	13C5-PFPeA	103%	100%	40-130%
	13C5-PFHxA	102%	99%	40-130%
	13C4-PFHpA	104%	103%	40-130%
	13C8-PFOA	97%	102%	40-130%
	13C9-PFNA	103%	100%	40-130%
	13C6-PFDA	104%	104%	40-130%
	13C7-PFUnDA	109%	102%	30-130%
	13C2-PFDoDA	93%	87%	10-130%
	13C2-PFTeDA	86%	99%	10-130%
	13C3-PFBS	100%	97%	40-135%
	13C3-PFHxS	102%	107%	40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ERM-12M		
Lab Sample ID:	JE24410-6	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	99%	80%	40-130%
	13C8-FOSA	106%	100%	40-130%
	d3-MeFOSA	91%	85%	10-130%
	d5-EtFOSA	92%	85%	10-130%
	d3-MeFOSAA	138%	92%	40-170%
	d5-EtFOSAA	140% [c]	97%	25-135%
	d7-MeFOSE	102%	82%	10-130%
	d9-EtFOSE	107%	82%	10-130%
	13C2-4:2FTS	165%	110%	40-200%
	13C2-6:2FTS	145%	115%	40-200%
	13C2-8:2FTS	188%	109%	40-300%
	13C3-HFPO-DA	89%	80%	40-130%

(a) Dilution required (EIS recovery standard failure).
(b) Result is from Run# 2
(c) Outside control limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ERM-12M
Lab Sample ID: JE24410-6
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2M145400.D	1	12/06/25 00:35	AC	12/04/25 16:30	OP69515A	E2M6568
Run #2 [b]	2M145665.D	1	12/13/25 15:30	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	1.06	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%	83%	29-124%
321-60-8	2-Fluorobiphenyl	65%	81%	23-122%
1718-51-0	Terphenyl-d14	76%	87%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ERM-14R		
Lab Sample ID:	JE24410-7	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375277.D	1	12/09/25 15:34	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	12.7	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	41.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.8	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	ERM-14R		
Lab Sample ID:	JE24410-7	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	109	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	174	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.4	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: ERM-14R
Lab Sample ID: JE24410-7
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145557.D	1	12/10/25 14:20	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	69%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GZ/DC-5D
Lab Sample ID: JE24410-8
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39482.D	1	12/05/25 19:17	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	466 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	0.0267	0.0086	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0312	0.0043	ug/l	
307-24-4	Perfluorohexanoic acid	0.0277	0.0021	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0315	0.0021	ug/l	
335-67-1	Perfluorooctanoic acid	0.0623	0.0021	ug/l	
375-95-1	Perfluorononanoic acid	0.0372	0.0021	ug/l	
335-76-2	Perfluorodecanoic acid	0.0150	0.0021	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0154	0.0021	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	0.0034	0.0021	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0033	0.0021	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0121	0.0021	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0021	ug/l	
31506-32-8	MeFOSA	ND	0.0021	ug/l	
4151-50-2	EtFOSA	ND	0.0021	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GZ/DC-5D		
Lab Sample ID:	JE24410-8	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0021	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.021	ug/l	
1691-99-2	EtFOSE	ND	0.021	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0086	ug/l	
919005-14-4	ADONA	ND	0.0086	ug/l	
377-73-1	PFMPA	ND	0.0043	ug/l	
863090-89-5	PFMBA	ND	0.0043	ug/l	
151772-58-6	NFDHA	ND	0.0043	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0086	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0086	ug/l	
113507-82-7	PFEESA	ND	0.0043	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.054	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.054	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	86%		5-130%
	13C5-PFPeA	107%		40-130%
	13C5-PFHxA	104%		40-130%
	13C4-PFHpA	101%		40-130%
	13C8-PFOA	100%		40-130%
	13C9-PFNA	106%		40-130%
	13C6-PFDA	114%		40-130%
	13C7-PFUnDA	99%		30-130%
	13C2-PFDoDA	91%		10-130%
	13C2-PFTeDA	99%		10-130%
	13C3-PFBS	103%		40-135%
	13C3-PFHxS	106%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: GZ/DC-5D
Lab Sample ID: JE24410-8
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	110%		40-130%
	13C8-FOSA	95%		40-130%
	d3-MeFOSA	92%		10-130%
	d5-EtFOSA	97%		10-130%
	d3-MeFOSAA	103%		40-170%
	d5-EtFOSAA	100%		25-135%
	d7-MeFOSE	104%		10-130%
	d9-EtFOSE	114%		10-130%
	13C2-4:2FTS	150%		40-200%
	13C2-6:2FTS	124%		40-200%
	13C2-8:2FTS	117%		40-300%
	13C3-HFPO-DA	101%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB 402		
Lab Sample ID:	JE24410-9	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375278.D	1	12/09/25 15:59	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	1.6	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	6.4	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB 402		
Lab Sample ID:	JE24410-9	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	122	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	137	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB 402		
Lab Sample ID:	JE24410-9	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: JTB 402
Lab Sample ID: JE24410-9
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145558.D	1	12/10/25 14:41	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		29-124%
321-60-8	2-Fluorobiphenyl	73%		23-122%
1718-51-0	Terphenyl-d14	79%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB-404		
Lab Sample ID:	JE24410-10	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375279.D	1	12/09/25 16:24	BK	n/a	n/a	VL11525
Run #2 [a]	L375282.D	10	12/09/25 17:40	BK	n/a	n/a	VL11525

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB-404		
Lab Sample ID:	JE24410-10	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	436 [c]	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	95%	102%	80-120%
2037-26-5	Toluene-D8	99%	98%	80-120%
460-00-4	4-Bromofluorobenzene	95%	96%	82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB-404		
Lab Sample ID:	JE24410-10	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB-404		
Lab Sample ID:	JE24410-10	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39483.D	1	12/05/25 19:32	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	473 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	0.0820	0.0085	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0697	0.0042	ug/l	
307-24-4	Perfluorohexanoic acid	0.0642	0.0021	ug/l	
375-85-9	Perfluoroheptanoic acid	0.113	0.0021	ug/l	
335-67-1	Perfluorooctanoic acid	0.225	0.0021	ug/l	
375-95-1	Perfluorononanoic acid	0.165	0.0021	ug/l	
335-76-2	Perfluorodecanoic acid	0.0594	0.0021	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0209	0.0021	ug/l	
307-55-1	Perfluorododecanoic acid	0.0028	0.0021	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	0.0024	0.0021	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0067	0.0021	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0152	0.0021	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0021	ug/l	
31506-32-8	MeFOSA	ND	0.0021	ug/l	
4151-50-2	EtFOSA	ND	0.0021	ug/l	

ND = Not detected
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	JTB-404		
Lab Sample ID:	JE24410-10	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0021	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.021	ug/l	
1691-99-2	EtFOSE	ND	0.021	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0085	ug/l	
919005-14-4	ADONA	ND	0.0085	ug/l	
377-73-1	PFMPA	ND	0.0042	ug/l	
863090-89-5	PFMBA	ND	0.0042	ug/l	
151772-58-6	NFDHA	ND	0.0042	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0085	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0085	ug/l	
113507-82-7	PFEESA	ND	0.0042	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.053	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.053	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	98%		5-130%
	13C5-PFPeA	107%		40-130%
	13C5-PFHxA	108%		40-130%
	13C4-PFHpA	103%		40-130%
	13C8-PFOA	99%		40-130%
	13C9-PFNA	109%		40-130%
	13C6-PFDA	106%		40-130%
	13C7-PFUnDA	106%		30-130%
	13C2-PFDoDA	90%		10-130%
	13C2-PFTeDA	97%		10-130%
	13C3-PFBS	99%		40-135%
	13C3-PFHxS	101%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: JTB-404
Lab Sample ID: JE24410-10
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	102%		40-130%
	13C8-FOSA	93%		40-130%
	d3-MeFOSA	85%		10-130%
	d5-EtFOSA	86%		10-130%
	d3-MeFOSAA	103%		40-170%
	d5-EtFOSAA	94%		25-135%
	d7-MeFOSE	95%		10-130%
	d9-EtFOSE	103%		10-130%
	13C2-4:2FTS	137%		40-200%
	13C2-6:2FTS	143%		40-200%
	13C2-8:2FTS	116%		40-300%
	13C3-HFPO-DA	103%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: JTB-404
Lab Sample ID: JE24410-10
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145559.D	1	12/10/25 15:02	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	84%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-EWC		
Lab Sample ID:	JE24410-11	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375289.D	1	12/09/25 20:35	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-EWC		
Lab Sample ID:	JE24410-11	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	76.5	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	6.8	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-EWC		
Lab Sample ID:	JE24410-11	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-EWC		
Lab Sample ID:	JE24410-11	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CS10146.D	1	12/05/25 21:41	AC	12/04/25 16:30	OP69515A	ECS508
Run #2 [b]	2M145666.D	1	12/13/25 15:52	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	0.869	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%	76%	29-124%
321-60-8	2-Fluorobiphenyl	72%	68%	23-122%
1718-51-0	Terphenyl-d14	85%	77%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-EW-N		
Lab Sample ID:	JE24410-12	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375283.D	1	12/09/25 18:05	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-EW-N		
Lab Sample ID:	JE24410-12	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	39.8	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	1.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-EW-N		
Lab Sample ID:	JE24410-12	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-EW-N
Lab Sample ID: JE24410-12
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145560.D	1	12/10/25 15:23	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		29-124%
321-60-8	2-Fluorobiphenyl	75%		23-122%
1718-51-0	Terphenyl-d14	86%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW/EW-S		
Lab Sample ID:	JE24410-13	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375290.D	1	12/09/25 21:00	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	4.4	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	22.9	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW/EW-S		
Lab Sample ID:	JE24410-13	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	175	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	120	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	9.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW/EW-S		
Lab Sample ID:	JE24410-13	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW/EW-S		
Lab Sample ID:	JE24410-13	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CS10147.D	1	12/05/25 22:04	AC	12/04/25 16:30	OP69515A	ECS508
Run #2 [b]	2M145667.D	1	12/13/25 16:13	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	0.399	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%	85%	29-124%
321-60-8	2-Fluorobiphenyl	63%	77%	23-122%
1718-51-0	Terphenyl-d14	82%	83%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-201A		
Lab Sample ID:	JE24410-14	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375291.D	1	12/09/25 21:25	BK	n/a	n/a	VL11525
Run #2 [a]	L375340.D	10	12/10/25 18:13	BK	n/a	n/a	VL11527

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	9.2	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	45.3	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-201A		
Lab Sample ID:	JE24410-14	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	212 [c]	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	84.5	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	112%	80-120%
2037-26-5	Toluene-D8	100%	97%	80-120%
460-00-4	4-Bromofluorobenzene	99%	103%	82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-201A		
Lab Sample ID:	JE24410-14	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-201A
Lab Sample ID: JE24410-14
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2M145417.D	1	12/06/25 06:51	AC	12/04/25 16:30	OP69515A	E2M6569
Run #2 [b]	2M145668.D	1	12/13/25 16:34	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	2.13	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%	85%	29-124%
321-60-8	2-Fluorobiphenyl	62%	77%	23-122%
1718-51-0	Terphenyl-d14	71%	84%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-201B		
Lab Sample ID:	JE24410-15	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375292.D	1	12/09/25 21:50	BK	n/a	n/a	VL11525
Run #2 [a]	L375334.D	10	12/10/25 15:42	BK	n/a	n/a	VL11527

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.2	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-201B		
Lab Sample ID:	JE24410-15	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	224 [c]	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	7.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	109%	80-120%
2037-26-5	Toluene-D8	97%	99%	80-120%
460-00-4	4-Bromofluorobenzene	97%	102%	82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-201B		
Lab Sample ID:	JE24410-15	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-201B
Lab Sample ID: JE24410-15
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2M145418.D	1	12/06/25 07:15	AC	12/04/25 16:30	OP69515A	E2M6569
Run #2 [b]	2M145669.D	1	12/13/25 16:56	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%	74%	29-124%
321-60-8	2-Fluorobiphenyl	53%	66%	23-122%
1718-51-0	Terphenyl-d14	67%	70%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202A		
Lab Sample ID:	JE24410-16	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375284.D	1	12/09/25 18:30	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202A		
Lab Sample ID:	JE24410-16	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.3	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202A		
Lab Sample ID:	JE24410-16	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-202A
Lab Sample ID: JE24410-16
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39484.D	1	12/05/25 19:46	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	465 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	0.240	0.0086	ug/l	
2706-90-3	Perfluoropentanoic acid	0.212	0.0043	ug/l	
307-24-4	Perfluorohexanoic acid	0.0535	0.0022	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0529	0.0022	ug/l	
335-67-1	Perfluorooctanoic acid	0.0861	0.0022	ug/l	
375-95-1	Perfluorononanoic acid	0.0544	0.0022	ug/l	
335-76-2	Perfluorodecanoic acid	0.0133	0.0022	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0022	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0022	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0022	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0022	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	0.0031	0.0022	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0113	0.0022	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0022	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.133	0.0022	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0022	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0022	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0022	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0022	ug/l	
31506-32-8	MeFOSA	ND	0.0022	ug/l	
4151-50-2	EtFOSA	ND	0.0022	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202A		
Lab Sample ID:	JE24410-16	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0022	ug/l	
2991-50-6	EtFOSAA	ND	0.0022	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.022	ug/l	
1691-99-2	EtFOSE	ND	0.022	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0086	ug/l	
919005-14-4	ADONA	ND	0.0086	ug/l	
377-73-1	PFMPA	ND	0.0043	ug/l	
863090-89-5	PFMBA	ND	0.0043	ug/l	
151772-58-6	NFDHA	ND	0.0043	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0086	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0086	ug/l	
113507-82-7	PFEESA	ND	0.0043	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.054	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.054	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	72%		5-130%
	13C5-PFPeA	99%		40-130%
	13C5-PFHxA	97%		40-130%
	13C4-PFHpA	99%		40-130%
	13C8-PFOA	99%		40-130%
	13C9-PFNA	102%		40-130%
	13C6-PFDA	96%		40-130%
	13C7-PFUnDA	94%		30-130%
	13C2-PFDoDA	83%		10-130%
	13C2-PFTeDA	86%		10-130%
	13C3-PFBS	94%		40-135%
	13C3-PFHxS	91%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202A		
Lab Sample ID:	JE24410-16	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	97%		40-130%
	13C8-FOSA	92%		40-130%
	d3-MeFOSA	86%		10-130%
	d5-EtFOSA	86%		10-130%
	d3-MeFOSAA	101%		40-170%
	d5-EtFOSAA	90%		25-135%
	d7-MeFOSE	91%		10-130%
	d9-EtFOSE	96%		10-130%
	13C2-4:2FTS	120%		40-200%
	13C2-6:2FTS	123%		40-200%
	13C2-8:2FTS	115%		40-300%
	13C3-HFPO-DA	92%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-202A
Lab Sample ID: JE24410-16
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145561.D	1	12/10/25 15:44	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	1.97	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		29-124%
321-60-8	2-Fluorobiphenyl	85%		23-122%
1718-51-0	Terphenyl-d14	96%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202B		
Lab Sample ID:	JE24410-17	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375332.D	1	12/10/25 14:52	BK	n/a	n/a	VL11527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202B		
Lab Sample ID:	JE24410-17	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	1.0	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	115%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-202B		
Lab Sample ID:	JE24410-17	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-203A		
Lab Sample ID:	JE24410-18	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375294.D	1	12/09/25 22:40	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	6.9	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-203A		
Lab Sample ID:	JE24410-18	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	1.3	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-203A		
Lab Sample ID:	JE24410-18	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-203A
Lab Sample ID: JE24410-18
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2M145419.D	1	12/06/25 07:39	AC	12/04/25 16:30	OP69515A	E2M6569
Run #2 [b]	2M145670.D	1	12/13/25 17:17	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	3.26	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	46%	87%	29-124%
321-60-8	2-Fluorobiphenyl	47%	76%	23-122%
1718-51-0	Terphenyl-d14	53%	77%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-203B		
Lab Sample ID:	JE24410-19	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375343.D	1	12/10/25 19:29	BK	n/a	n/a	VL11527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	1.5	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	3.7	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	20.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-203B		
Lab Sample ID:	JE24410-19	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	10.9	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.6	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	11.1	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	102%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-203B		
Lab Sample ID:	JE24410-19	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-203B		
Lab Sample ID:	JE24410-19	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2M145420.D	1	12/06/25 08:03	AC	12/04/25 16:30	OP69515A	E2M6569
Run #2 [b]	2M145671.D	1	12/13/25 17:39	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	2.04	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	51%	67%	29-124%
321-60-8	2-Fluorobiphenyl	55%	64%	23-122%
1718-51-0	Terphenyl-d14	70%	70%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-204A		
Lab Sample ID:	JE24410-20	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375285.D	1	12/09/25 18:55	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	2.5	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	2.4	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	57.5	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-204A		
Lab Sample ID:	JE24410-20	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	2.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	3.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	7.5	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-204A		
Lab Sample ID:	JE24410-20	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-204A
Lab Sample ID: JE24410-20
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145562.D	1	12/10/25 16:05	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	2.19	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	78%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-204B		
Lab Sample ID:	JE24410-21	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375286.D	1	12/09/25 19:20	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	2.5	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	3.3	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	27.4	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-204B		
Lab Sample ID:	JE24410-21	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	45.6	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	2.1	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	30.7	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	5.2	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-204B		
Lab Sample ID:	JE24410-21	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-204B
Lab Sample ID: JE24410-21
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/02/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145563.D	1	12/10/25 16:27	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	2.56	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		29-124%
321-60-8	2-Fluorobiphenyl	75%		23-122%
1718-51-0	Terphenyl-d14	84%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-603		
Lab Sample ID:	JE24410-22	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375344.D	1	12/10/25 19:54	BK	n/a	n/a	VL11527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-603		
Lab Sample ID:	JE24410-22	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	8.8	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-603		
Lab Sample ID:	JE24410-22	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-604		
Lab Sample ID:	JE24410-23	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375345.D	1	12/10/25 20:19	BK	n/a	n/a	VL11527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-604		
Lab Sample ID:	JE24410-23	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	98.9	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	2.6	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	102%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-604		
Lab Sample ID:	JE24410-23	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-604
Lab Sample ID: JE24410-23
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2M145421.D	1	12/06/25 08:27	AC	12/04/25 16:30	OP69515A	E2M6569
Run #2 [b]	2M145672.D	1	12/13/25 18:00	KLS	12/12/25 11:53	OP69732A	E2M6578

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%	73%	29-124%
321-60-8	2-Fluorobiphenyl	73%	67%	23-122%
1718-51-0	Terphenyl-d14	72%	73%	22-130%

(a) Sample reextracted outside the holding time for confirmation.
(b) Sample extracted outside the holding time. Confirmation run.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-605		
Lab Sample ID:	JE24410-24	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375287.D	1	12/09/25 19:45	BK	n/a	n/a	VL11525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	1.5	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-605		
Lab Sample ID:	JE24410-24	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	30.8	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	5.6	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	4.2	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-605		
Lab Sample ID:	JE24410-24	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-605		
Lab Sample ID:	JE24410-24	**Date Sampled:**	12/02/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M145564.D	1	12/10/25 16:48	AC	12/09/25 11:50	OP69611A	E2M6575
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	0.392	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		29-124%
321-60-8	2-Fluorobiphenyl	71%		23-122%
1718-51-0	Terphenyl-d14	82%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-4		
Lab Sample ID:	JE24410-25	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39485.D	1	12/05/25 20:01	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	473 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	ND	0.0085	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0042	ug/l	
307-24-4	Perfluorohexanoic acid	0.0031	0.0021	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0021	ug/l	
335-67-1	Perfluorooctanoic acid	0.0044	0.0021	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0021	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0021	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	ND	0.0021	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0021	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0029	0.0021	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0021	ug/l	
31506-32-8	MeFOSA	ND	0.0021	ug/l	
4151-50-2	EtFOSA	ND	0.0021	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-4		
Lab Sample ID:	JE24410-25	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0021	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.021	ug/l	
1691-99-2	EtFOSE	ND	0.021	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0085	ug/l	
919005-14-4	ADONA	ND	0.0085	ug/l	
377-73-1	PFMPA	ND	0.0042	ug/l	
863090-89-5	PFMBA	ND	0.0042	ug/l	
151772-58-6	NFDHA	ND	0.0042	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0085	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0085	ug/l	
113507-82-7	PFEESA	ND	0.0042	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.053	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.053	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	96%		5-130%
	13C5-PFPeA	101%		40-130%
	13C5-PFHxA	100%		40-130%
	13C4-PFHpA	99%		40-130%
	13C8-PFOA	100%		40-130%
	13C9-PFNA	105%		40-130%
	13C6-PFDA	98%		40-130%
	13C7-PFUnDA	90%		30-130%
	13C2-PFDoDA	80%		10-130%
	13C2-PFTeDA	71%		10-130%
	13C3-PFBS	104%		40-135%
	13C3-PFHxS	105%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SW-4		
Lab Sample ID:	JE24410-25	**Date Sampled:**	12/03/25
Matrix:	AQ - Ground Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	100%		40-130%
	13C8-FOSA	98%		40-130%
	d3-MeFOSA	87%		10-130%
	d5-EtFOSA	85%		10-130%
	d3-MeFOSAA	101%		40-170%
	d5-EtFOSAA	95%		25-135%
	d7-MeFOSE	98%		10-130%
	d9-EtFOSE	102%		10-130%
	13C2-4:2FTS	134%		40-200%
	13C2-6:2FTS	143%		40-200%
	13C2-8:2FTS	123%		40-300%
	13C3-HFPO-DA	92%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQ-BLANK		
Lab Sample ID:	JE24410-26	**Date Sampled:**	12/03/25
Matrix:	AQ - Equipment Blank	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39486.D	1	12/05/25 20:15	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	461 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	ND	0.0087	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0043	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0022	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0022	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0022	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0022	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0022	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0022	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0022	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0022	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0022	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	ND	0.0022	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0022	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0022	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0022	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0022	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0022	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0022	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0087	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0022	ug/l	
31506-32-8	MeFOSA	ND	0.0022	ug/l	
4151-50-2	EtFOSA	ND	0.0022	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQ-BLANK		
Lab Sample ID:	JE24410-26	**Date Sampled:**	12/03/25
Matrix:	AQ - Equipment Blank	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0022	ug/l	
2991-50-6	EtFOSAA	ND	0.0022	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.022	ug/l	
1691-99-2	EtFOSE	ND	0.022	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0087	ug/l	
919005-14-4	ADONA	ND	0.0087	ug/l	
377-73-1	PFMPA	ND	0.0043	ug/l	
863090-89-5	PFMBA	ND	0.0043	ug/l	
151772-58-6	NFDHA	ND	0.0043	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0087	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0087	ug/l	
113507-82-7	PFEESA	ND	0.0043	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.054	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.054	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	103%		5-130%
	13C5-PFPeA	103%		40-130%
	13C5-PFHxA	104%		40-130%
	13C4-PFHpA	107%		40-130%
	13C8-PFOA	99%		40-130%
	13C9-PFNA	104%		40-130%
	13C6-PFDA	118%		40-130%
	13C7-PFUnDA	117%		30-130%
	13C2-PFDoDA	101%		10-130%
	13C2-PFTeDA	108%		10-130%
	13C3-PFBS	93%		40-135%
	13C3-PFHxS	95%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EQ-BLANK
Lab Sample ID: JE24410-26
Matrix: AQ - Equipment Blank
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	99%		40-130%
	13C8-FOSA	97%		40-130%
	d3-MeFOSA	91%		10-130%
	d5-EtFOSA	89%		10-130%
	d3-MeFOSAA	108%		40-170%
	d5-EtFOSAA	99%		25-135%
	d7-MeFOSE	105%		10-130%
	d9-EtFOSE	113%		10-130%
	13C2-4:2FTS	105%		40-200%
	13C2-6:2FTS	115%		40-200%
	13C2-8:2FTS	107%		40-300%
	13C3-HFPO-DA	101%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK 1		
Lab Sample ID:	JE24410-27	**Date Sampled:**	12/02/25
Matrix:	AQ - Field Blank Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39487.D	1	12/05/25 15:28	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	469 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	ND	0.0085	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0043	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0021	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0021	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0021	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0021	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0021	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	ND	0.0021	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0021	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0021	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0085	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0021	ug/l	
31506-32-8	MeFOSA	ND	0.0021	ug/l	
4151-50-2	EtFOSA	ND	0.0021	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK 1		
Lab Sample ID:	JE24410-27	**Date Sampled:**	12/02/25
Matrix:	AQ - Field Blank Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0021	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.021	ug/l	
1691-99-2	EtFOSE	ND	0.021	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0085	ug/l	
919005-14-4	ADONA	ND	0.0085	ug/l	
377-73-1	PFMPA	ND	0.0043	ug/l	
863090-89-5	PFMBA	ND	0.0043	ug/l	
151772-58-6	NFDHA	ND	0.0043	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0085	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0085	ug/l	
113507-82-7	PFEESA	ND	0.0043	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.053	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.053	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	100%		5-130%
	13C5-PFPeA	101%		40-130%
	13C5-PFHxA	100%		40-130%
	13C4-PFHpA	100%		40-130%
	13C8-PFOA	104%		40-130%
	13C9-PFNA	100%		40-130%
	13C6-PFDA	105%		40-130%
	13C7-PFUnDA	100%		30-130%
	13C2-PFDoDA	93%		10-130%
	13C2-PFTeDA	97%		10-130%
	13C3-PFBS	96%		40-135%
	13C3-PFHxS	96%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK 1		
Lab Sample ID:	JE24410-27	**Date Sampled:**	12/02/25
Matrix:	AQ - Field Blank Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	108%		40-130%
	13C8-FOSA	106%		40-130%
	d3-MeFOSA	98%		10-130%
	d5-EtFOSA	102%		10-130%
	d3-MeFOSAA	104%		40-170%
	d5-EtFOSAA	96%		25-135%
	d7-MeFOSE	112%		10-130%
	d9-EtFOSE	113%		10-130%
	13C2-4:2FTS	134%		40-200%
	13C2-6:2FTS	122%		40-200%
	13C2-8:2FTS	113%		40-300%
	13C3-HFPO-DA	88%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK 2		
Lab Sample ID:	JE24410-28	**Date Sampled:**	12/03/25
Matrix:	AQ - Field Blank Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q39488.D	1	12/05/25 15:42	AM	12/05/25 10:00	OP69534	T2Q477
Run #2							

	Initial Volume	Final Volume
Run #1	465 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-22-4	Perfluorobutanoic acid	ND	0.0086	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0043	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0022	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0022	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0022	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0022	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0022	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0022	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0022	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0022	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0022	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	ND	0.0022	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0022	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0022	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0022	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0022	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0022	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0022	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0022	ug/l	
FLUOROTELOMER SULFONIC ACIDS					
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0086	ug/l	
PERFLUOROOCTANE SULFONAMIDES					
754-91-6	PFOSA	ND	0.0022	ug/l	
31506-32-8	MeFOSA	ND	0.0022	ug/l	
4151-50-2	EtFOSA	ND	0.0022	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK 2		
Lab Sample ID:	JE24410-28	**Date Sampled:**	12/03/25
Matrix:	AQ - Field Blank Water	**Date Received:**	12/03/25
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0022	ug/l	
2991-50-6	EtFOSAA	ND	0.0022	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS					
24448-09-7	MeFOSE	ND	0.022	ug/l	
1691-99-2	EtFOSE	ND	0.022	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0086	ug/l	
919005-14-4	ADONA	ND	0.0086	ug/l	
377-73-1	PFMPA	ND	0.0043	ug/l	
863090-89-5	PFMBA	ND	0.0043	ug/l	
151772-58-6	NFDHA	ND	0.0043	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0086	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0086	ug/l	
113507-82-7	PFEESA	ND	0.0043	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS					
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.054	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.054	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	101%		5-130%
	13C5-PFPeA	105%		40-130%
	13C5-PFHxA	102%		40-130%
	13C4-PFHpA	104%		40-130%
	13C8-PFOA	103%		40-130%
	13C9-PFNA	104%		40-130%
	13C6-PFDA	105%		40-130%
	13C7-PFUnDA	105%		30-130%
	13C2-PFDoDA	88%		10-130%
	13C2-PFTeDA	103%		10-130%
	13C3-PFBS	98%		40-135%
	13C3-PFHxS	92%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FIELD BLANK 2
Lab Sample ID: JE24410-28
Matrix: AQ - Field Blank Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 12/03/25
Date Received: 12/03/25
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	94%		40-130%
	13C8-FOSA	101%		40-130%
	d3-MeFOSA	87%		10-130%
	d5-EtFOSA	88%		10-130%
	d3-MeFOSAA	102%		40-170%
	d5-EtFOSAA	97%		25-135%
	d7-MeFOSE	102%		10-130%
	d9-EtFOSE	98%		10-130%
	13C2-4:2FTS	113%		40-200%
	13C2-6:2FTS	110%		40-200%
	13C2-8:2FTS	110%		40-300%
	13C3-HFPO-DA	91%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE24410-29	**Date Sampled:**	12/03/25
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L375342.D	1	12/10/25 19:04	BK	n/a	n/a	VL11527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform [b]	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane [b]	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropan [b]	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE24410-29	**Date Sampled:**	12/03/25
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	103%		82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE24410-29	**Date Sampled:**	12/03/25
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/03/25
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

VOA Special List

CAS No.	Compound	Result	RL	Units	Q

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

GW
FB
TB

CHAIN OF CUSTODY

PDEM-TF-111725-67 Page 1 of 3 PN

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking #
Bottle Order Control #: PDEM-TF-111725-67
SGS Quote #
SGS Job #: JE24410

Client / Reporting Information	Project Information	Analysis Requested	Matrix Codes
Company Name: TETRA TECH	Project Name: HUEC - Burlington - Biannual		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Street Address: 100 NICKERSON RD	Street: 3 Van de Graft	Billing Information (if different from Report to)	
City / State / Zip: Marlborough MA 01752	City / State: Burlington MA	Company Name	
Project Contact / E-mail: C. Bryant	Project #: 117-367086-2Sec1	Street Address	
Phone #	Client Purchase Order #	City / State / Zip	
Sampler(s) Name(s) / Phone #: M.T C.B	Project Manager: C. Bryant	Attention:	

V8260SL
BLV837C-SIM-HDGW
LCID1633415T40

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) / Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	LAB USE ONLY
1	B-105B MS/MSD		12/2	935	CB	G	N	GW	15	9				6				X Y	E57
2	B-107		12/2	1240	CB	G	N	GW	3					3				X	M50
3	B-602		12/2	1030	CB				5	3				2				X X	M54 FB
4	CES-11D		12/2	820	CB				8	3				5				X X X	V37
5	CES-11D DUP		12/2	805	CB				8	3				5				X X X	
6	ERM-12M		12/3	955	CB				8	3				5				Y X Y	E68
7	ERM-14R		12/2	1035	MT				5	3				2				X X	V96
8	G2/OC-5D		12/2	1140	CB				3					3				X	
9	JTB402		12/2	1050	MT				5	3				2				X X	
10	JTB-404		12/2	951	MT				8	3				5				Y X Y	
11	MW-EWC		12/3	1210	CB				5	3				2				X X	
12	MW-EW-N		12/2	1005	MT				5	3				2				X X	

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days* STD
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage

*Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

2AGW

SGS Service Center
Northborough, MA

http://www.sgs.com/en/terms-and-conditions 12/3

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	12/3 1600	1	2	12/3/25 17:30	2
3	12/5/25 22:50	3	4		4
5		5	Custody Seal #	Intact / Not Intact / Absent	Therm ID: / See Sample Receipt Summary: On Ice: X / Cooler Temp. °C: 0.4, 1.2, 1.3

EHSA-QAC-0023-06 Rev.Date:9/24/2024

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JE24410

Client / Reporting Information

Company Name: TETRA TECH
Street Address:
City State Zip
Project Contact E-mail
Phone #
Sampler(s) Name(s) Phone #

Project Information

Project Name: HUEC - Burlington - Biannual
Street
City State
Project #
Client Purchase Order #
Project Manager

Billing Information (if different from Report to)

Company Name
Street Address
City State Zip
Attention:

Analysis Requested

V8260SL
BLV8270SIMHIGH
LCID1633LIST40

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	Number of Bottles: # of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)										LAB USE ONLY
13	MW-EW-5		12/3	845	MT	G	N	GW	5	3				2				X	X									
14	MW-201A		12/3	1125	MT	G	N	GW	5	3				2				X	X									
15	MW-201B		12/3	1210	MT	G	N	GW	5	3				2				X	X									
16	MW-202A		12/2	1350	CB	G	N	GW	8	3				5				Y	X	X								
17	MW-202B		12/3	715	CB	G	N	GW	3	3								X										
18	MW-203BA		12/3	1340	CB	G	N	GW	5	3				2				X	X									
19	MW-203B		12/3	1335	MT	G	N	GW	5	3				2				X	X									
20	MW-204A		12/2	1350	MT	G	N	GW	5	3				2				X	X									
21	MW-204B		12/2	1420	MT	G	N	GW	5	3				2				X	X									
22	MW-603		12/3	955	MT	G	N	GW	3	3								X										
23	MW-604		12/3	1645	MT	G	N	GW	5	3				2				X	X									
24	MW-605		12/2	855	MT	G	N	GW	5	3				2				X	X									

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days* SPP
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage
*Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

SGS Service Center
Northborough, MA
12/3

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished By:	Date / Time:	Received By:
1		12/3 1600	
2		12/3/25 17:30	
3		12/3/25 22:50	
4			
5			

Custody Seal # ☐ Intact ☐ Not Intact ☐ Absent
Therm ID: ☐ On Ice Cooler Temp. °C
See Sample Receipt Summary

EHSA-QAC-0023-06 Rev.Date:9/24/2024

5.1.5

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JE24410

Client / Reporting Information

Company Name: TETRA TECH
Street Address:
City: State: Zip:
Project Contact: E-mail:
Phone #:
Sampler(s) Name(s): Phone #:

Project Information

Project Name: HUEC - Burlington - Biannual
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Analysis Requested

VOA 6 05L	BNA 8 7 6 SM 14 DIOX	LCD 1633 1 ST 40

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection: Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	Number of Bottles: # of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)												LAB USE ONLY
25	SW-4		12/3	1410	MT	G	N	GW	3					3						X										
26	FB-Blank		12/3	1415	CB	G	N	EB	3					3						X										
27	Field Blank 1		12/2	1100	MT	G	N	FB	3					3						X										
28	Field Blank 2		12/3	1420	MT	G	N	FB	3					3						X										
29	Trip Blank							TB											X											

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days* SED
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other
- All data available via SGS Engage
- * Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

SGS Service Center
Northborough, MA 12/3
http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		12/3 1600	1
2			2
3		12/3/25 2250	3
4			4
5			5

Custody Seal #: ☐ Intact ☐ Not Intact ☐ Absent
Therm ID: On Ice ☐ Cooler Temp. °C
See Sample Receipt Summary ☐

EHSA-QAC-0023-06 Rev.Date:9/24/2024

SGS Sample Receipt Summary

Job Number: je24410 **Client:** TETRA TECH **Project:** HVEC, 3 VAN DE GRAAF DR, BURLINGTON,

Date / Time Received: 12/3/2025 10:50:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (0.4); Cooler 2: (1.2); Cooler 3: (1.3);

Cooler Temps (Corrected) °C: Cooler 1: (0.5); Cooler 2: (1.3); Cooler 3: (1.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	3		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☐		☑
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☑		☐	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments
-1 Also rec'd volume for PFAS, not requested on COC. Please confirm analysis needed.
-5 Did not receive volume for PFAS. Please confirm.

Responded to by: Thelma Flaherty

Response Date: 12/8/2025

Per client request

-1 Please analyze "B-105B' for LCID1633LIST40 with MS/MSD.
-5 Disregard PFAS analysis requested on CES-11D.

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE24410
Project Location:	HVEC, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE24410-1,JE24410-10,JE24410-11,JE24410-12,JE24410-13,JE24410-14,JE24410-15,JE24410-16,JE24410-17,JE24410-18,JE24410-19
JE24410-1A,JE24410-1AD,JE24410-1AS,JE24410-1D,JE24410-1S,JE24410-2,JE24410-20,JE24410-21,JE24410-22,JE24410-23,JE24410-24
JE24410-25,JE24410-26,JE24410-27,JE24410-28,JE24410-29,JE24410-3,JE24410-4,JE24410-5,JE24410-6,JE24410-7,JE24410-8
JE24410-9

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC (X) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr ( ) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC (X) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals ( ) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

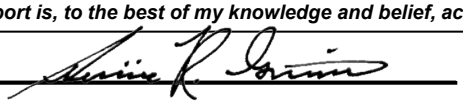
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes	☑ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☐ Yes	☑ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **21-Dec-25**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE24410-1 B-105B	Collected: 02-DEC-25 09:35 By: CB		Received: 03-DEC-25		By: JK	
JE24410-1	SW846 8270E BY SIM	05-DEC-25 23:30	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-1	SW846 8260D	09-DEC-25 13:54	BK			V8260SL
JE24410-1	SW846 8270E BY SIM	13-DEC-25 15:09	KLS	12-DEC-25		
JE24410-2 B-107	Collected: 02-DEC-25 12:40 By: CB		Received: 03-DEC-25		By: JK	
JE24410-2	EPA 1633	05-DEC-25 18:34	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-3 B-602	Collected: 02-DEC-25 10:30 By: CB		Received: 03-DEC-25		By: JK	
JE24410-3	SW846 8260D	09-DEC-25 14:19	BK			V8260SL
JE24410-3	SW846 8270E BY SIM	10-DEC-25 13:16	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-4 CES-11D	Collected: 02-DEC-25 08:20 By: CB		Received: 03-DEC-25		By: JK	
JE24410-4	EPA 1633	05-DEC-25 18:49	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-4	SW846 8260D	09-DEC-25 14:44	BK			V8260SL
JE24410-4	SW846 8270E BY SIM	10-DEC-25 13:37	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-5 CES-11D DUP	Collected: 02-DEC-25 08:25 By: CB		Received: 03-DEC-25		By: JK	
JE24410-5	SW846 8260D	09-DEC-25 15:09	BK			V8260SL
JE24410-5	SW846 8270E BY SIM	10-DEC-25 13:58	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-6 ERM-12M	Collected: 03-DEC-25 09:55 By: CB		Received: 03-DEC-25		By: JK	
JE24410-6	EPA 1633	05-DEC-25 19:03	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-6	SW846 8270E BY SIM	06-DEC-25 00:35	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-6	EPA 1633	09-DEC-25 16:42	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-6	SW846 8260D	09-DEC-25 20:10	BK			V8260SL
JE24410-6	SW846 8270E BY SIM	13-DEC-25 15:30	KLS	12-DEC-25		

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE24410-7 ERM-14R	Collected: 02-DEC-25 10:25 By: CB		Received: 03-DEC-25 By: JK			
JE24410-7	SW846 8260D	09-DEC-25 15:34	BK			V8260SL
JE24410-7	SW846 8270E BY SIM	10-DEC-25 14:20	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-8 GZ/DC-5D	Collected: 02-DEC-25 11:40 By: CB		Received: 03-DEC-25 By: JK			
JE24410-8	EPA 1633	05-DEC-25 19:17	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-9 JTB 402	Collected: 02-DEC-25 10:50 By: CB		Received: 03-DEC-25 By: JK			
JE24410-9	SW846 8260D	09-DEC-25 15:59	BK			V8260SL
JE24410-9	SW846 8270E BY SIM	10-DEC-25 14:41	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-10 JTB-404	Collected: 02-DEC-25 09:51 By: CB		Received: 03-DEC-25 By: JK			
JE24410-10	EPA 1633	05-DEC-25 19:32	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-10	SW846 8260D	09-DEC-25 16:24	BK			V8260SL
JE24410-10	SW846 8260D	09-DEC-25 17:40	BK			V8260SL
JE24410-10	SW846 8270E BY SIM	10-DEC-25 15:02	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-11 MW-EWC	Collected: 03-DEC-25 12:10 By: CB		Received: 03-DEC-25 By: JK			
JE24410-11	SW846 8270E BY SIM	05-DEC-25 21:41	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-11	SW846 8260D	09-DEC-25 20:35	BK			V8260SL
JE24410-11	SW846 8270E BY SIM	13-DEC-25 15:52	KLS	12-DEC-25		
JE24410-12 MW-EW-N	Collected: 02-DEC-25 10:05 By: CB		Received: 03-DEC-25 By: JK			
JE24410-12	SW846 8260D	09-DEC-25 18:05	BK			V8260SL
JE24410-12	SW846 8270E BY SIM	10-DEC-25 15:23	AC	09-DEC-25	KB	BLV8270SIM14DIOX

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE24410-13	Collected: 03-DEC-25 08:45 By: CB MW/EW-S		Received: 03-DEC-25 By: JK			
JE24410-13	SW846 8270E BY SIM	05-DEC-25 22:04	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-13	SW846 8260D	09-DEC-25 21:00	BK			V8260SL
JE24410-13	SW846 8270E BY SIM	13-DEC-25 16:13	KLS	12-DEC-25		
JE24410-14	Collected: 03-DEC-25 11:25 By: CB MW-201A		Received: 03-DEC-25 By: JK			
JE24410-14	SW846 8270E BY SIM	06-DEC-25 06:51	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-14	SW846 8260D	09-DEC-25 21:25	BK			V8260SL
JE24410-14	SW846 8260D	10-DEC-25 18:13	BK			V8260SL
JE24410-14	SW846 8270E BY SIM	13-DEC-25 16:34	KLS	12-DEC-25		
JE24410-15	Collected: 03-DEC-25 12:10 By: CB MW-201B		Received: 03-DEC-25 By: JK			
JE24410-15	SW846 8270E BY SIM	06-DEC-25 07:15	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-15	SW846 8260D	09-DEC-25 21:50	BK			V8260SL
JE24410-15	SW846 8260D	10-DEC-25 15:42	BK			V8260SL
JE24410-15	SW846 8270E BY SIM	13-DEC-25 16:56	KLS	12-DEC-25		
JE24410-16	Collected: 02-DEC-25 13:50 By: CB MW-202A		Received: 03-DEC-25 By: JK			
JE24410-16	EPA 1633	05-DEC-25 19:46	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-16	SW846 8260D	09-DEC-25 18:30	BK			V8260SL
JE24410-16	SW846 8270E BY SIM	10-DEC-25 15:44	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-17	Collected: 03-DEC-25 07:15 By: CB MW-202B		Received: 03-DEC-25 By: JK			
JE24410-17	SW846 8260D	10-DEC-25 14:52	BK			V8260SL
JE24410-18	Collected: 03-DEC-25 13:40 By: CB MW-203A		Received: 03-DEC-25 By: JK			
JE24410-18	SW846 8270E BY SIM	06-DEC-25 07:39	AC	04-DEC-25	BD	BLV8270SIM14DIOX

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE24410-18	SW846 8260D	09-DEC-25 22:40	BK			V8260SL
JE24410-18	SW846 8270E BY SIM	13-DEC-25 17:17	KLS	12-DEC-25		
JE24410-19	Collected: 03-DEC-25 13:35 By: CB		Received: 03-DEC-25 By: JK			
MW-203B						
JE24410-19	SW846 8270E BY SIM	06-DEC-25 08:03	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-19	SW846 8260D	10-DEC-25 19:29	BK			V8260SL
JE24410-19	SW846 8270E BY SIM	13-DEC-25 17:39	KLS	12-DEC-25		
JE24410-1A	Collected: 02-DEC-25 09:35 By: CB		Received: 03-DEC-25 By: JK			
B-105B						
JE24410-1A	EPA 1633	09-DEC-25 19:11	MH	09-DEC-25	MK	LCID1633LIST40
JE24410-20	Collected: 02-DEC-25 13:50 By: CB		Received: 03-DEC-25 By: JK			
MW-204A						
JE24410-20	SW846 8260D	09-DEC-25 18:55	BK			V8260SL
JE24410-20	SW846 8270E BY SIM	10-DEC-25 16:05	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-21	Collected: 02-DEC-25 14:20 By: CB		Received: 03-DEC-25 By: JK			
MW-204B						
JE24410-21	SW846 8260D	09-DEC-25 19:20	BK			V8260SL
JE24410-21	SW846 8270E BY SIM	10-DEC-25 16:27	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-22	Collected: 03-DEC-25 09:55 By: CB		Received: 03-DEC-25 By: JK			
MW-603						
JE24410-22	SW846 8260D	10-DEC-25 19:54	BK			V8260SL
JE24410-23	Collected: 03-DEC-25 10:45 By: CB		Received: 03-DEC-25 By: JK			
MW-604						
JE24410-23	SW846 8270E BY SIM	06-DEC-25 08:27	AC	04-DEC-25	BD	BLV8270SIM14DIOX
JE24410-23	SW846 8260D	10-DEC-25 20:19	BK			V8260SL
JE24410-23	SW846 8270E BY SIM	13-DEC-25 18:00	KLS	12-DEC-25		

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE24410

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367086-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE24410-24	Collected: 02-DEC-25 08:55 By: CB MW-605		Received: 03-DEC-25 By: JK			
JE24410-24	SW846 8260D	09-DEC-25 19:45	BK			V8260SL
JE24410-24	SW846 8270E BY SIM	10-DEC-25 16:48	AC	09-DEC-25	KB	BLV8270SIM14DIOX
JE24410-25	Collected: 03-DEC-25 14:10 By: CB SW-4		Received: 03-DEC-25 By: JK			
JE24410-25	EPA 1633	05-DEC-25 20:01	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-26	Collected: 03-DEC-25 14:15 By: CB EQ-BLANK		Received: 03-DEC-25 By: JK			
JE24410-26	EPA 1633	05-DEC-25 20:15	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-27	Collected: 02-DEC-25 11:00 By: CB FIELD BLANK 1		Received: 03-DEC-25 By: JK			
JE24410-27	EPA 1633	05-DEC-25 15:28	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-28	Collected: 03-DEC-25 14:20 By: CB FIELD BLANK 2		Received: 03-DEC-25 By: JK			
JE24410-28	EPA 1633	05-DEC-25 15:42	AM	05-DEC-25	DC	LCID1633LIST40
JE24410-29	Collected: 03-DEC-25 14:20 By: CB TRIP BLANK		Received: 03-DEC-25 By: JK			
JE24410-29	SW846 8260D	10-DEC-25 19:04	BK			V8260SL

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11525	SW846 8260D						
VL11525-BS	67-64-1	Acetone	BSP	REC	89	%	70-130
VL11525-BS	107-13-1	Acrylonitrile	BSP	REC	90	%	70-130
VL11525-BS	71-43-2	Benzene	BSP	REC	94	%	70-130
VL11525-BS	108-86-1	Bromobenzene	BSP	REC	90	%	70-130
VL11525-BS	74-97-5	Bromochloromethane	BSP	REC	90	%	70-130
VL11525-BS	75-27-4	Bromodichloromethane	BSP	REC	91	%	70-130
VL11525-BS	75-25-2	Bromoform	BSP	REC	90	%	70-130
VL11525-BS	74-83-9	Bromomethane	BSP	REC	94	%	70-130
VL11525-BS	78-93-3	2-Butanone (MEK)	BSP	REC	101	%	70-130
VL11525-BS	104-51-8	n-Butylbenzene	BSP	REC	98	%	70-130
VL11525-BS	135-98-8	sec-Butylbenzene	BSP	REC	97	%	70-130
VL11525-BS	98-06-6	tert-Butylbenzene	BSP	REC	93	%	70-130
VL11525-BS	56-23-5	Carbon tetrachloride	BSP	REC	88	%	70-130
VL11525-BS	108-90-7	Chlorobenzene	BSP	REC	94	%	70-130
VL11525-BS	75-00-3	Chloroethane	BSP	REC	91	%	70-130
VL11525-BS	67-66-3	Chloroform	BSP	REC	87	%	70-130
VL11525-BS	74-87-3	Chloromethane	BSP	REC	81	%	70-130
VL11525-BS	95-49-8	o-Chlorotoluene	BSP	REC	93	%	70-130
VL11525-BS	106-43-4	p-Chlorotoluene	BSP	REC	95	%	70-130
VL11525-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	86	%	70-130
VL11525-BS	124-48-1	Dibromochloromethane	BSP	REC	92	%	70-130
VL11525-BS	106-93-4	1,2-Dibromoethane	BSP	REC	97	%	70-130
VL11525-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	93	%	70-130
VL11525-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	93	%	70-130
VL11525-BS	75-34-3	1,1-Dichloroethane	BSP	REC	91	%	70-130
VL11525-BS	107-06-2	1,2-Dichloroethane	BSP	REC	93	%	70-130
VL11525-BS	75-35-4	1,1-Dichloroethene	BSP	REC	88	%	70-130
VL11525-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	92	%	70-130
VL11525-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	90	%	70-130
VL11525-BS	78-87-5	1,2-Dichloropropane	BSP	REC	94	%	70-130
VL11525-BS	142-28-9	1,3-Dichloropropane	BSP	REC	99	%	70-130
VL11525-BS	594-20-7	2,2-Dichloropropane	BSP	REC	92	%	70-130
VL11525-BS	563-58-6	1,1-Dichloropropene	BSP	REC	96	%	70-130
VL11525-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	97	%	70-130
VL11525-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	95	%	70-130
VL11525-BS	100-41-4	Ethylbenzene	BSP	REC	94	%	70-130
VL11525-BS	87-68-3	Hexachlorobutadiene	BSP	REC	99	%	70-130
VL11525-BS	591-78-6	2-Hexanone	BSP	REC	98	%	70-130
VL11525-BS	98-82-8	Isopropylbenzene	BSP	REC	96	%	70-130
VL11525-BS	99-87-6	p-Isopropyltoluene	BSP	REC	97	%	70-130
VL11525-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	101	%	70-130
VL11525-BS	74-95-3	Methylene bromide	BSP	REC	92	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11525-BS	75-09-2	Methylene chloride	BSP	REC	88	%	70-130
VL11525-BS	91-20-3	Naphthalene	BSP	REC	91	%	70-130
VL11525-BS	103-65-1	n-Propylbenzene	BSP	REC	97	%	70-130
VL11525-BS	100-42-5	Styrene	BSP	REC	98	%	70-130
VL11525-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	94	%	70-130
VL11525-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	97	%	70-130
VL11525-BS	127-18-4	Tetrachloroethene	BSP	REC	97	%	70-130
VL11525-BS	108-88-3	Toluene	BSP	REC	93	%	70-130
VL11525-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	92	%	70-130
VL11525-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	93	%	70-130
VL11525-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	92	%	70-130
VL11525-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	99	%	70-130
VL11525-BS	79-01-6	Trichloroethene	BSP	REC	95	%	70-130
VL11525-BS	75-69-4	Trichlorofluoromethane	BSP	REC	92	%	70-130
VL11525-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	95	%	70-130
VL11525-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	97	%	70-130
VL11525-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	96	%	70-130
VL11525-BS	75-01-4	Vinyl chloride	BSP	REC	92	%	70-130
VL11525-BS		m,p-Xylene	BSP	REC	93	%	70-130
VL11525-BS	95-47-6	o-Xylene	BSP	REC	93	%	70-130
VL11525-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	95	%	70-130
VL11525-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	70-130
VL11525-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	101	%	70-130
VL11525-BSD	67-64-1	Acetone	BSD	REC	106	%	70-130
VL11525-BSD	67-64-1	Acetone	BSD	RPD	17	%	20
VL11525-BSD	107-13-1	Acrylonitrile	BSD	REC	102	%	70-130
VL11525-BSD	107-13-1	Acrylonitrile	BSD	RPD	12	%	20
VL11525-BSD	71-43-2	Benzene	BSD	REC	101	%	70-130
VL11525-BSD	71-43-2	Benzene	BSD	RPD	7	%	20
VL11525-BSD	108-86-1	Bromobenzene	BSD	REC	95	%	70-130
VL11525-BSD	108-86-1	Bromobenzene	BSD	RPD	5	%	20
VL11525-BSD	74-97-5	Bromochloromethane	BSD	REC	94	%	70-130
VL11525-BSD	74-97-5	Bromochloromethane	BSD	RPD	4	%	20
VL11525-BSD	75-27-4	Bromodichloromethane	BSD	REC	98	%	70-130
VL11525-BSD	75-27-4	Bromodichloromethane	BSD	RPD	8	%	20
VL11525-BSD	75-25-2	Bromoform	BSD	REC	92	%	70-130
VL11525-BSD	75-25-2	Bromoform	BSD	RPD	3	%	20
VL11525-BSD	74-83-9	Bromomethane	BSD	REC	96	%	70-130
VL11525-BSD	74-83-9	Bromomethane	BSD	RPD	2	%	20
VL11525-BSD	78-93-3	2-Butanone (MEK)	BSD	REC	109	%	70-130
VL11525-BSD	78-93-3	2-Butanone (MEK)	BSD	RPD	8	%	20
VL11525-BSD	104-51-8	n-Butylbenzene	BSD	REC	103	%	70-130
VL11525-BSD	104-51-8	n-Butylbenzene	BSD	RPD	5	%	20
VL11525-BSD	135-98-8	sec-Butylbenzene	BSD	REC	102	%	70-130
VL11525-BSD	135-98-8	sec-Butylbenzene	BSD	RPD	5	%	20

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11525-BSD	98-06-6	tert-Butylbenzene	BSD	REC	98	%	70-130
VL11525-BSD	98-06-6	tert-Butylbenzene	BSD	RPD	5	%	20
VL11525-BSD	56-23-5	Carbon tetrachloride	BSD	REC	95	%	70-130
VL11525-BSD	56-23-5	Carbon tetrachloride	BSD	RPD	8	%	20
VL11525-BSD	108-90-7	Chlorobenzene	BSD	REC	97	%	70-130
VL11525-BSD	108-90-7	Chlorobenzene	BSD	RPD	4	%	20
VL11525-BSD	75-00-3	Chloroethane	BSD	REC	94	%	70-130
VL11525-BSD	75-00-3	Chloroethane	BSD	RPD	2	%	20
VL11525-BSD	67-66-3	Chloroform	BSD	REC	93	%	70-130
VL11525-BSD	67-66-3	Chloroform	BSD	RPD	6	%	20
VL11525-BSD	74-87-3	Chloromethane	BSD	REC	88	%	70-130
VL11525-BSD	74-87-3	Chloromethane	BSD	RPD	8	%	20
VL11525-BSD	95-49-8	o-Chlorotoluene	BSD	REC	98	%	70-130
VL11525-BSD	95-49-8	o-Chlorotoluene	BSD	RPD	5	%	20
VL11525-BSD	106-43-4	p-Chlorotoluene	BSD	REC	98	%	70-130
VL11525-BSD	106-43-4	p-Chlorotoluene	BSD	RPD	3	%	20
VL11525-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	REC	92	%	70-130
VL11525-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	RPD	7	%	20
VL11525-BSD	124-48-1	Dibromochloromethane	BSD	REC	95	%	70-130
VL11525-BSD	124-48-1	Dibromochloromethane	BSD	RPD	4	%	20
VL11525-BSD	106-93-4	1,2-Dibromoethane	BSD	REC	102	%	70-130
VL11525-BSD	106-93-4	1,2-Dibromoethane	BSD	RPD	5	%	20
VL11525-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	98	%	70-130
VL11525-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	5	%	20
VL11525-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	98	%	70-130
VL11525-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	5	%	20
VL11525-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	96	%	70-130
VL11525-BSD	75-34-3	1,1-Dichloroethane	BSD	RPD	6	%	20
VL11525-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	100	%	70-130
VL11525-BSD	107-06-2	1,2-Dichloroethane	BSD	RPD	7	%	20
VL11525-BSD	75-35-4	1,1-Dichloroethene	BSD	REC	105	%	70-130
VL11525-BSD	75-35-4	1,1-Dichloroethene	BSD	RPD	18 [a]	%	20
VL11525-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	REC	97	%	70-130
VL11525-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	RPD	6	%	20
VL11525-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	REC	106	%	70-130
VL11525-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	RPD	16 [a]	%	20
VL11525-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	101	%	70-130
VL11525-BSD	78-87-5	1,2-Dichloropropane	BSD	RPD	7	%	20
VL11525-BSD	142-28-9	1,3-Dichloropropane	BSD	REC	101	%	70-130
VL11525-BSD	142-28-9	1,3-Dichloropropane	BSD	RPD	3	%	20
VL11525-BSD	594-20-7	2,2-Dichloropropane	BSD	REC	100	%	70-130
VL11525-BSD	594-20-7	2,2-Dichloropropane	BSD	RPD	8	%	20
VL11525-BSD	563-58-6	1,1-Dichloropropene	BSD	REC	103	%	70-130
VL11525-BSD	563-58-6	1,1-Dichloropropene	BSD	RPD	7	%	20
VL11525-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	104	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11525-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	RPD	7	%	20
VL11525-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	100	%	70-130
VL11525-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	RPD	5	%	20
VL11525-BSD	100-41-4	Ethylbenzene	BSD	REC	98	%	70-130
VL11525-BSD	100-41-4	Ethylbenzene	BSD	RPD	4	%	20
VL11525-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	106	%	70-130
VL11525-BSD	87-68-3	Hexachlorobutadiene	BSD	RPD	7	%	20
VL11525-BSD	591-78-6	2-Hexanone	BSD	REC	102	%	70-130
VL11525-BSD	591-78-6	2-Hexanone	BSD	RPD	5	%	20
VL11525-BSD	98-82-8	Isopropylbenzene	BSD	REC	100	%	70-130
VL11525-BSD	98-82-8	Isopropylbenzene	BSD	RPD	4	%	20
VL11525-BSD	99-87-6	p-Isopropyltoluene	BSD	REC	102	%	70-130
VL11525-BSD	99-87-6	p-Isopropyltoluene	BSD	RPD	5	%	20
VL11525-BSD	108-10-1	4-Methyl-2-pentanone(MIBK)	BSD	REC	107	%	70-130
VL11525-BSD	108-10-1	4-Methyl-2-pentanone(MIBK)	BSD	RPD	5	%	20
VL11525-BSD	74-95-3	Methylene bromide	BSD	REC	98	%	70-130
VL11525-BSD	74-95-3	Methylene bromide	BSD	RPD	6	%	20
VL11525-BSD	75-09-2	Methylene chloride	BSD	REC	102	%	70-130
VL11525-BSD	75-09-2	Methylene chloride	BSD	RPD	15 [a]	%	20
VL11525-BSD	91-20-3	Naphthalene	BSD	REC	97	%	70-130
VL11525-BSD	91-20-3	Naphthalene	BSD	RPD	6	%	20
VL11525-BSD	103-65-1	n-Propylbenzene	BSD	REC	101	%	70-130
VL11525-BSD	103-65-1	n-Propylbenzene	BSD	RPD	5	%	20
VL11525-BSD	100-42-5	Styrene	BSD	REC	101	%	70-130
VL11525-BSD	100-42-5	Styrene	BSD	RPD	3	%	20
VL11525-BSD	630-20-6	1,1,1,2-Tetrachloroethane	BSD	REC	99	%	70-130
VL11525-BSD	630-20-6	1,1,1,2-Tetrachloroethane	BSD	RPD	4	%	20
VL11525-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	102	%	70-130
VL11525-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	RPD	4	%	20
VL11525-BSD	127-18-4	Tetrachloroethene	BSD	REC	101	%	70-130
VL11525-BSD	127-18-4	Tetrachloroethene	BSD	RPD	4	%	20
VL11525-BSD	108-88-3	Toluene	BSD	REC	98	%	70-130
VL11525-BSD	108-88-3	Toluene	BSD	RPD	5	%	20
VL11525-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	REC	98	%	70-130
VL11525-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	RPD	7	%	25
VL11525-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	96	%	70-130
VL11525-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	3	%	20
VL11525-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	97	%	70-130
VL11525-BSD	71-55-6	1,1,1-Trichloroethane	BSD	RPD	6	%	20
VL11525-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	102	%	70-130
VL11525-BSD	79-00-5	1,1,2-Trichloroethane	BSD	RPD	3	%	20
VL11525-BSD	79-01-6	Trichloroethene	BSD	REC	104	%	70-130
VL11525-BSD	79-01-6	Trichloroethene	BSD	RPD	8	%	20
VL11525-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	96	%	70-130
VL11525-BSD	75-69-4	Trichlorofluoromethane	BSD	RPD	4	%	20

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11525-BSD	96-18-4	1,2,3-Trichloropropane	BSD	REC	98	%	70-130
VL11525-BSD	96-18-4	1,2,3-Trichloropropane	BSD	RPD	3	%	20
VL11525-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	REC	102	%	70-130
VL11525-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	RPD	5	%	20
VL11525-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	REC	101	%	70-130
VL11525-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	RPD	5	%	20
VL11525-BSD	75-01-4	Vinyl chloride	BSD	REC	95	%	70-130
VL11525-BSD	75-01-4	Vinyl chloride	BSD	RPD	3	%	20
VL11525-BSD		m,p-Xylene	BSD	REC	98	%	70-130
VL11525-BSD		m,p-Xylene	BSD	RPD	5	%	20
VL11525-BSD	95-47-6	o-Xylene	BSD	REC	97	%	70-130
VL11525-BSD	95-47-6	o-Xylene	BSD	RPD	4	%	20
VL11525-BSD	1868-53-7	Dibromofluoromethane	BSD	SURR	97	%	70-130
VL11525-BSD	2037-26-5	Toluene-D8	BSD	SURR	101	%	70-130
VL11525-BSD	460-00-4	4-Bromofluorobenzene	BSD	SURR	102	%	70-130
JE24410-1MS	67-64-1	Acetone	MS	REC	95	%	70-130
JE24410-1MS	107-13-1	Acrylonitrile	MS	REC	97	%	70-130
JE24410-1MS	71-43-2	Benzene	MS	REC	99	%	70-130
JE24410-1MS	108-86-1	Bromobenzene	MS	REC	91	%	70-130
JE24410-1MS	74-97-5	Bromochloromethane	MS	REC	96	%	70-130
JE24410-1MS	75-27-4	Bromodichloromethane	MS	REC	97	%	70-130
JE24410-1MS	75-25-2	Bromoform	MS	REC	90	%	70-130
JE24410-1MS	74-83-9	Bromomethane	MS	REC	98	%	70-130
JE24410-1MS	78-93-3	2-Butanone (MEK)	MS	REC	104	%	70-130
JE24410-1MS	104-51-8	n-Butylbenzene	MS	REC	101	%	70-130
JE24410-1MS	135-98-8	sec-Butylbenzene	MS	REC	99	%	70-130
JE24410-1MS	98-06-6	tert-Butylbenzene	MS	REC	94	%	70-130
JE24410-1MS	56-23-5	Carbon tetrachloride	MS	REC	97	%	70-130
JE24410-1MS	108-90-7	Chlorobenzene	MS	REC	95	%	70-130
JE24410-1MS	75-00-3	Chloroethane	MS	REC	96	%	70-130
JE24410-1MS	67-66-3	Chloroform	MS	REC	93	%	70-130
JE24410-1MS	74-87-3	Chloromethane	MS	REC	85	%	70-130
JE24410-1MS	95-49-8	o-Chlorotoluene	MS	REC	94	%	70-130
JE24410-1MS	106-43-4	p-Chlorotoluene	MS	REC	94	%	70-130
JE24410-1MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	84	%	70-130
JE24410-1MS	124-48-1	Dibromochloromethane	MS	REC	93	%	70-130
JE24410-1MS	106-93-4	1,2-Dibromoethane	MS	REC	98	%	70-130
JE24410-1MS	541-73-1	1,3-Dichlorobenzene	MS	REC	93	%	70-130
JE24410-1MS	106-46-7	1,4-Dichlorobenzene	MS	REC	93	%	70-130
JE24410-1MS	75-34-3	1,1-Dichloroethane	MS	REC	98	%	70-130
JE24410-1MS	107-06-2	1,2-Dichloroethane	MS	REC	97	%	70-130
JE24410-1MS	75-35-4	1,1-Dichloroethene	MS	REC	98	%	70-130
JE24410-1MS	156-59-2	cis-1,2-Dichloroethene	MS	REC	99	%	70-130
JE24410-1MS	156-60-5	trans-1,2-Dichloroethene	MS	REC	98	%	70-130
JE24410-1MS	78-87-5	1,2-Dichloropropane	MS	REC	100	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JE24410-1MS	142-28-9	1,3-Dichloropropane	MS	REC	98	%	70-130
JE24410-1MS	594-20-7	2,2-Dichloropropane	MS	REC	101	%	70-130
JE24410-1MS	563-58-6	1,1-Dichloropropene	MS	REC	105	%	70-130
JE24410-1MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	101	%	70-130
JE24410-1MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	96	%	70-130
JE24410-1MS	100-41-4	Ethylbenzene	MS	REC	98	%	70-130
JE24410-1MS	87-68-3	Hexachlorobutadiene	MS	REC	100	%	70-130
JE24410-1MS	591-78-6	2-Hexanone	MS	REC	97	%	70-130
JE24410-1MS	98-82-8	Isopropylbenzene	MS	REC	100	%	70-130
JE24410-1MS	99-87-6	p-Isopropyltoluene	MS	REC	98	%	70-130
JE24410-1MS	108-10-1	4-Methyl-2-pentanone(MIBK)	MS	REC	100	%	70-130
JE24410-1MS	74-95-3	Methylene bromide	MS	REC	96	%	70-130
JE24410-1MS	75-09-2	Methylene chloride	MS	REC	93	%	70-130
JE24410-1MS	91-20-3	Naphthalene	MS	REC	90	%	70-130
JE24410-1MS	103-65-1	n-Propylbenzene	MS	REC	98	%	70-130
JE24410-1MS	100-42-5	Styrene	MS	REC	99	%	70-130
JE24410-1MS	630-20-6	1,1,1,2-Tetrachloroethane	MS	REC	96	%	70-130
JE24410-1MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	94	%	70-130
JE24410-1MS	127-18-4	Tetrachloroethene	MS	REC	100	%	70-130
JE24410-1MS	108-88-3	Toluene	MS	REC	95	%	70-130
JE24410-1MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	92	%	70-130
JE24410-1MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	93	%	70-130
JE24410-1MS	71-55-6	1,1,1-Trichloroethane	MS	REC	99	%	70-130
JE24410-1MS	79-00-5	1,1,2-Trichloroethane	MS	REC	99	%	70-130
JE24410-1MS	79-01-6	Trichloroethene	MS	REC	102	%	70-130
JE24410-1MS	75-69-4	Trichlorofluoromethane	MS	REC	103	%	70-130
JE24410-1MS	96-18-4	1,2,3-Trichloropropane	MS	REC	92	%	70-130
JE24410-1MS	95-63-6	1,2,4-Trimethylbenzene	MS	REC	98	%	70-130
JE24410-1MS	108-67-8	1,3,5-Trimethylbenzene	MS	REC	96	%	70-130
JE24410-1MS	75-01-4	Vinyl chloride	MS	REC	97	%	70-130
JE24410-1MS		m,p-Xylene	MS	REC	95	%	70-130
JE24410-1MS	95-47-6	o-Xylene	MS	REC	95	%	70-130
JE24410-1MS	1868-53-7	Dibromofluoromethane	MS	SURR	102	%	70-130
JE24410-1MS	2037-26-5	Toluene-D8	MS	SURR	99	%	70-130
JE24410-1MS	460-00-4	4-Bromofluorobenzene	MS	SURR	100	%	70-130
JE24410-1MSD	67-64-1	Acetone	MSD	REC	93	%	70-130
JE24410-1MSD	67-64-1	Acetone	MSD	RPD	3	%	30
JE24410-1MSD	107-13-1	Acrylonitrile	MSD	REC	93	%	70-130
JE24410-1MSD	107-13-1	Acrylonitrile	MSD	RPD	4	%	30
JE24410-1MSD	71-43-2	Benzene	MSD	REC	95	%	70-130
JE24410-1MSD	71-43-2	Benzene	MSD	RPD	4	%	30
JE24410-1MSD	108-86-1	Bromobenzene	MSD	REC	89	%	70-130
JE24410-1MSD	108-86-1	Bromobenzene	MSD	RPD	2	%	30
JE24410-1MSD	74-97-5	Bromochloromethane	MSD	REC	93	%	70-130
JE24410-1MSD	74-97-5	Bromochloromethane	MSD	RPD	3	%	30

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JE24410-1MSD	75-27-4	Bromodichloromethane	MSD	REC	94	%	70-130
JE24410-1MSD	75-27-4	Bromodichloromethane	MSD	RPD	3	%	30
JE24410-1MSD	75-25-2	Bromoform	MSD	REC	88	%	70-130
JE24410-1MSD	75-25-2	Bromoform	MSD	RPD	2	%	30
JE24410-1MSD	74-83-9	Bromomethane	MSD	REC	103	%	70-130
JE24410-1MSD	74-83-9	Bromomethane	MSD	RPD	6	%	30
JE24410-1MSD	78-93-3	2-Butanone (MEK)	MSD	REC	103	%	70-130
JE24410-1MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	1	%	30
JE24410-1MSD	104-51-8	n-Butylbenzene	MSD	REC	98	%	70-130
JE24410-1MSD	104-51-8	n-Butylbenzene	MSD	RPD	2	%	30
JE24410-1MSD	135-98-8	sec-Butylbenzene	MSD	REC	96	%	70-130
JE24410-1MSD	135-98-8	sec-Butylbenzene	MSD	RPD	3	%	30
JE24410-1MSD	98-06-6	tert-Butylbenzene	MSD	REC	93	%	70-130
JE24410-1MSD	98-06-6	tert-Butylbenzene	MSD	RPD	1	%	30
JE24410-1MSD	56-23-5	Carbon tetrachloride	MSD	REC	93	%	70-130
JE24410-1MSD	56-23-5	Carbon tetrachloride	MSD	RPD	4	%	30
JE24410-1MSD	108-90-7	Chlorobenzene	MSD	REC	93	%	70-130
JE24410-1MSD	108-90-7	Chlorobenzene	MSD	RPD	3	%	30
JE24410-1MSD	75-00-3	Chloroethane	MSD	REC	101	%	70-130
JE24410-1MSD	75-00-3	Chloroethane	MSD	RPD	5	%	30
JE24410-1MSD	67-66-3	Chloroform	MSD	REC	90	%	70-130
JE24410-1MSD	67-66-3	Chloroform	MSD	RPD	3	%	30
JE24410-1MSD	74-87-3	Chloromethane	MSD	REC	90	%	70-130
JE24410-1MSD	74-87-3	Chloromethane	MSD	RPD	6	%	30
JE24410-1MSD	95-49-8	o-Chlorotoluene	MSD	REC	91	%	70-130
JE24410-1MSD	95-49-8	o-Chlorotoluene	MSD	RPD	3	%	30
JE24410-1MSD	106-43-4	p-Chlorotoluene	MSD	REC	91	%	70-130
JE24410-1MSD	106-43-4	p-Chlorotoluene	MSD	RPD	3	%	30
JE24410-1MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	84	%	70-130
JE24410-1MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	0	%	30
JE24410-1MSD	124-48-1	Dibromochloromethane	MSD	REC	90	%	70-130
JE24410-1MSD	124-48-1	Dibromochloromethane	MSD	RPD	3	%	30
JE24410-1MSD	106-93-4	1,2-Dibromoethane	MSD	REC	95	%	70-130
JE24410-1MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	3	%	30
JE24410-1MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	92	%	70-130
JE24410-1MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	2	%	30
JE24410-1MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	90	%	70-130
JE24410-1MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	3	%	30
JE24410-1MSD	75-34-3	1,1-Dichloroethane	MSD	REC	95	%	70-130
JE24410-1MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	3	%	30
JE24410-1MSD	107-06-2	1,2-Dichloroethane	MSD	REC	95	%	70-130
JE24410-1MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	2	%	30
JE24410-1MSD	75-35-4	1,1-Dichloroethene	MSD	REC	94	%	70-130
JE24410-1MSD	75-35-4	1,1-Dichloroethene	MSD	RPD	5	%	30
JE24410-1MSD	156-59-2	cis-1,2-Dichloroethene	MSD	REC	96	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JE24410-1MSD	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	3	%	30
JE24410-1MSD	156-60-5	trans-1,2-Dichloroethene	MSD	REC	95	%	70-130
JE24410-1MSD	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	3	%	30
JE24410-1MSD	78-87-5	1,2-Dichloropropane	MSD	REC	96	%	70-130
JE24410-1MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	4	%	30
JE24410-1MSD	142-28-9	1,3-Dichloropropane	MSD	REC	96	%	70-130
JE24410-1MSD	142-28-9	1,3-Dichloropropane	MSD	RPD	2	%	30
JE24410-1MSD	594-20-7	2,2-Dichloropropane	MSD	REC	98	%	70-130
JE24410-1MSD	594-20-7	2,2-Dichloropropane	MSD	RPD	2	%	30
JE24410-1MSD	563-58-6	1,1-Dichloropropene	MSD	REC	101	%	70-130
JE24410-1MSD	563-58-6	1,1-Dichloropropene	MSD	RPD	3	%	30
JE24410-1MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	98	%	70-130
JE24410-1MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	3	%	30
JE24410-1MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	96	%	70-130
JE24410-1MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	0	%	30
JE24410-1MSD	100-41-4	Ethylbenzene	MSD	REC	94	%	70-130
JE24410-1MSD	100-41-4	Ethylbenzene	MSD	RPD	4	%	30
JE24410-1MSD	87-68-3	Hexachlorobutadiene	MSD	REC	101	%	70-130
JE24410-1MSD	87-68-3	Hexachlorobutadiene	MSD	RPD	0	%	30
JE24410-1MSD	591-78-6	2-Hexanone	MSD	REC	96	%	70-130
JE24410-1MSD	591-78-6	2-Hexanone	MSD	RPD	1	%	30
JE24410-1MSD	98-82-8	Isopropylbenzene	MSD	REC	97	%	70-130
JE24410-1MSD	98-82-8	Isopropylbenzene	MSD	RPD	3	%	30
JE24410-1MSD	99-87-6	p-Isopropyltoluene	MSD	REC	96	%	70-130
JE24410-1MSD	99-87-6	p-Isopropyltoluene	MSD	RPD	2	%	30
JE24410-1MSD	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	REC	99	%	70-130
JE24410-1MSD	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	RPD	2	%	30
JE24410-1MSD	74-95-3	Methylene bromide	MSD	REC	94	%	70-130
JE24410-1MSD	74-95-3	Methylene bromide	MSD	RPD	3	%	30
JE24410-1MSD	75-09-2	Methylene chloride	MSD	REC	91	%	70-130
JE24410-1MSD	75-09-2	Methylene chloride	MSD	RPD	3	%	30
JE24410-1MSD	91-20-3	Naphthalene	MSD	REC	90	%	70-130
JE24410-1MSD	91-20-3	Naphthalene	MSD	RPD	0	%	30
JE24410-1MSD	103-65-1	n-Propylbenzene	MSD	REC	96	%	70-130
JE24410-1MSD	103-65-1	n-Propylbenzene	MSD	RPD	2	%	30
JE24410-1MSD	100-42-5	Styrene	MSD	REC	97	%	70-130
JE24410-1MSD	100-42-5	Styrene	MSD	RPD	3	%	30
JE24410-1MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	REC	93	%	70-130
JE24410-1MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	RPD	4	%	30
JE24410-1MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	93	%	70-130
JE24410-1MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	1	%	30
JE24410-1MSD	127-18-4	Tetrachloroethene	MSD	REC	97	%	70-130
JE24410-1MSD	127-18-4	Tetrachloroethene	MSD	RPD	3	%	30
JE24410-1MSD	108-88-3	Toluene	MSD	REC	93	%	70-130
JE24410-1MSD	108-88-3	Toluene	MSD	RPD	2	%	30

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JE24410-1MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	92	%	70-130
JE24410-1MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	0	%	30
JE24410-1MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	90	%	70-130
JE24410-1MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	3	%	30
JE24410-1MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	96	%	70-130
JE24410-1MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	3	%	30
JE24410-1MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	96	%	70-130
JE24410-1MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	3	%	30
JE24410-1MSD	79-01-6	Trichloroethene	MSD	REC	100	%	70-130
JE24410-1MSD	79-01-6	Trichloroethene	MSD	RPD	2	%	30
JE24410-1MSD	75-69-4	Trichlorofluoromethane	MSD	REC	105	%	70-130
JE24410-1MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	2	%	30
JE24410-1MSD	96-18-4	1,2,3-Trichloropropane	MSD	REC	92	%	70-130
JE24410-1MSD	96-18-4	1,2,3-Trichloropropane	MSD	RPD	0	%	30
JE24410-1MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	REC	95	%	70-130
JE24410-1MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	RPD	2	%	30
JE24410-1MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	REC	94	%	70-130
JE24410-1MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	RPD	2	%	30
JE24410-1MSD	75-01-4	Vinyl chloride	MSD	REC	102	%	70-130
JE24410-1MSD	75-01-4	Vinyl chloride	MSD	RPD	4	%	30
JE24410-1MSD		m,p-Xylene	MSD	REC	94	%	70-130
JE24410-1MSD		m,p-Xylene	MSD	RPD	2	%	30
JE24410-1MSD	95-47-6	o-Xylene	MSD	REC	93	%	70-130
JE24410-1MSD	95-47-6	o-Xylene	MSD	RPD	2	%	30
JE24410-1MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	101	%	70-130
JE24410-1MSD	2037-26-5	Toluene-D8	MSD	SURR	100	%	70-130
JE24410-1MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	100	%	70-130
VL11525-MB	1868-53-7	Dibromofluoromethane	MB	SURR	97	%	70-130
VL11525-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	70-130
VL11525-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	70-130
JE24410-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JE24410-1	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JE24410-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	70-130
JE24410-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	70-130
JE24410-3	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JE24410-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JE24410-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	70-130
JE24410-4	2037-26-5	Toluene-D8	SAMP	SURR	100	%	70-130
JE24410-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
JE24410-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JE24410-5	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	94	%	70-130
JE24410-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	70-130
JE24410-6	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JE24410-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JE24410-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JE24410-7	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JE24410-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130
JE24410-9	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JE24410-9	2037-26-5	Toluene-D8	SAMP	SURR	100	%	70-130
JE24410-9	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JE24410-10	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	70-130
JE24410-10	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	70-130
JE24410-10	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-10	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JE24410-10	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JE24410-10	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	70-130
JE24410-11	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JE24410-11	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JE24410-11	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JE24410-12	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JE24410-12	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JE24410-12	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
JE24410-13	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	70-130
JE24410-13	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-13	460-00-4	4-Bromofluorobenzene	SAMP	SURR	96	%	70-130
JE24410-14	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JE24410-14	2037-26-5	Toluene-D8	SAMP	SURR	100	%	70-130
JE24410-14	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130
JE24410-15	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	70-130
JE24410-15	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JE24410-15	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
JE24410-16	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	70-130
JE24410-16	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JE24410-16	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JE24410-18	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	70-130
JE24410-18	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-18	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
JE24410-20	1868-53-7	Dibromofluoromethane	SAMP	SURR	97	%	70-130
JE24410-20	2037-26-5	Toluene-D8	SAMP	SURR	101	%	70-130
JE24410-20	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	70-130
JE24410-21	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JE24410-21	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-21	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130
JE24410-24	1868-53-7	Dibromofluoromethane	SAMP	SURR	96	%	70-130
JE24410-24	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-24	460-00-4	4-Bromofluorobenzene	SAMP	SURR	97	%	70-130

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* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11527-BS	67-64-1	Acetone	BSP	REC	93	%	70-130
VL11527-BS	107-13-1	Acrylonitrile	BSP	REC	98	%	70-130
VL11527-BS	71-43-2	Benzene	BSP	REC	95	%	70-130
VL11527-BS	108-86-1	Bromobenzene	BSP	REC	90	%	70-130
VL11527-BS	74-97-5	Bromochloromethane	BSP	REC	89	%	70-130
VL11527-BS	75-27-4	Bromodichloromethane	BSP	REC	95	%	70-130
VL11527-BS	75-25-2	Bromoform	BSP	REC	93	%	70-130
VL11527-BS	74-83-9	Bromomethane	BSP	REC	83	%	70-130
VL11527-BS	78-93-3	2-Butanone (MEK)	BSP	REC	102	%	70-130
VL11527-BS	104-51-8	n-Butylbenzene	BSP	REC	96	%	70-130
VL11527-BS	135-98-8	sec-Butylbenzene	BSP	REC	95	%	70-130
VL11527-BS	98-06-6	tert-Butylbenzene	BSP	REC	93	%	70-130
VL11527-BS	56-23-5	Carbon tetrachloride	BSP	REC	92	%	70-130
VL11527-BS	108-90-7	Chlorobenzene	BSP	REC	95	%	70-130
VL11527-BS	75-00-3	Chloroethane	BSP	REC	80	%	70-130
VL11527-BS	67-66-3	Chloroform	BSP	REC	89	%	70-130
VL11527-BS	74-87-3	Chloromethane	BSP	REC	75	%	70-130
VL11527-BS	95-49-8	o-Chlorotoluene	BSP	REC	92	%	70-130
VL11527-BS	106-43-4	p-Chlorotoluene	BSP	REC	94	%	70-130
VL11527-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	88	%	70-130
VL11527-BS	124-48-1	Dibromochloromethane	BSP	REC	94	%	70-130
VL11527-BS	106-93-4	1,2-Dibromoethane	BSP	REC	99	%	70-130
VL11527-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	93	%	70-130
VL11527-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	93	%	70-130
VL11527-BS	75-34-3	1,1-Dichloroethane	BSP	REC	93	%	70-130
VL11527-BS	107-06-2	1,2-Dichloroethane	BSP	REC	98	%	70-130
VL11527-BS	75-35-4	1,1-Dichloroethene	BSP	REC	87	%	70-130
VL11527-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	92	%	70-130
VL11527-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	89	%	70-130
VL11527-BS	78-87-5	1,2-Dichloropropane	BSP	REC	96	%	70-130
VL11527-BS	142-28-9	1,3-Dichloropropane	BSP	REC	99	%	70-130
VL11527-BS	594-20-7	2,2-Dichloropropane	BSP	REC	95	%	70-130
VL11527-BS	563-58-6	1,1-Dichloropropene	BSP	REC	98	%	70-130
VL11527-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	100	%	70-130
VL11527-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	99	%	70-130
VL11527-BS	100-41-4	Ethylbenzene	BSP	REC	95	%	70-130
VL11527-BS	87-68-3	Hexachlorobutadiene	BSP	REC	99	%	70-130
VL11527-BS	591-78-6	2-Hexanone	BSP	REC	102	%	70-130
VL11527-BS	98-82-8	Isopropylbenzene	BSP	REC	97	%	70-130
VL11527-BS	99-87-6	p-Isopropyltoluene	BSP	REC	96	%	70-130
VL11527-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	104	%	70-130
VL11527-BS	74-95-3	Methylene bromide	BSP	REC	94	%	70-130
VL11527-BS	75-09-2	Methylene chloride	BSP	REC	88	%	70-130
VL11527-BS	91-20-3	Naphthalene	BSP	REC	92	%	70-130
VL11527-BS	103-65-1	n-Propylbenzene	BSP	REC	95	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11527-BS	100-42-5	Styrene	BSP	REC	99	%	70-130
VL11527-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	97	%	70-130
VL11527-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	95	%	70-130
VL11527-BS	127-18-4	Tetrachloroethene	BSP	REC	99	%	70-130
VL11527-BS	108-88-3	Toluene	BSP	REC	96	%	70-130
VL11527-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	93	%	70-130
VL11527-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	94	%	70-130
VL11527-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	94	%	70-130
VL11527-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	98	%	70-130
VL11527-BS	79-01-6	Trichloroethene	BSP	REC	99	%	70-130
VL11527-BS	75-69-4	Trichlorofluoromethane	BSP	REC	81	%	70-130
VL11527-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	95	%	70-130
VL11527-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	97	%	70-130
VL11527-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	95	%	70-130
VL11527-BS	75-01-4	Vinyl chloride	BSP	REC	80	%	70-130
VL11527-BS		m,p-Xylene	BSP	REC	95	%	70-130
VL11527-BS	95-47-6	o-Xylene	BSP	REC	95	%	70-130
VL11527-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	95	%	70-130
VL11527-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	70-130
VL11527-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	101	%	70-130
VL11527-BSD	67-64-1	Acetone	BSD	REC	88	%	70-130
VL11527-BSD	67-64-1	Acetone	BSD	RPD	6	%	20
VL11527-BSD	107-13-1	Acrylonitrile	BSD	REC	95	%	70-130
VL11527-BSD	107-13-1	Acrylonitrile	BSD	RPD	4	%	20
VL11527-BSD	71-43-2	Benzene	BSD	REC	93	%	70-130
VL11527-BSD	71-43-2	Benzene	BSD	RPD	2	%	20
VL11527-BSD	108-86-1	Bromobenzene	BSD	REC	91	%	70-130
VL11527-BSD	108-86-1	Bromobenzene	BSD	RPD	0	%	20
VL11527-BSD	74-97-5	Bromochloromethane	BSD	REC	84	%	70-130
VL11527-BSD	74-97-5	Bromochloromethane	BSD	RPD	6	%	20
VL11527-BSD	75-27-4	Bromodichloromethane	BSD	REC	93	%	70-130
VL11527-BSD	75-27-4	Bromodichloromethane	BSD	RPD	3	%	20
VL11527-BSD	75-25-2	Bromoform	BSD	REC	89	%	70-130
VL11527-BSD	75-25-2	Bromoform	BSD	RPD	4	%	20
VL11527-BSD	74-83-9	Bromomethane	BSD	REC	78	%	70-130
VL11527-BSD	74-83-9	Bromomethane	BSD	RPD	6	%	20
VL11527-BSD	78-93-3	2-Butanone (MEK)	BSD	REC	101	%	70-130
VL11527-BSD	78-93-3	2-Butanone (MEK)	BSD	RPD	1	%	20
VL11527-BSD	104-51-8	n-Butylbenzene	BSD	REC	97	%	70-130
VL11527-BSD	104-51-8	n-Butylbenzene	BSD	RPD	1	%	20
VL11527-BSD	135-98-8	sec-Butylbenzene	BSD	REC	96	%	70-130
VL11527-BSD	135-98-8	sec-Butylbenzene	BSD	RPD	1	%	20
VL11527-BSD	98-06-6	tert-Butylbenzene	BSD	REC	93	%	70-130
VL11527-BSD	98-06-6	tert-Butylbenzene	BSD	RPD	0	%	20
VL11527-BSD	56-23-5	Carbon tetrachloride	BSD	REC	92	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11527-BSD	56-23-5	Carbon tetrachloride	BSD	RPD	0	%	20
VL11527-BSD	108-90-7	Chlorobenzene	BSD	REC	93	%	70-130
VL11527-BSD	108-90-7	Chlorobenzene	BSD	RPD	1	%	20
VL11527-BSD	75-00-3	Chloroethane	BSD	REC	79	%	70-130
VL11527-BSD	75-00-3	Chloroethane	BSD	RPD	2	%	20
VL11527-BSD	67-66-3	Chloroform	BSD	REC	87	%	70-130
VL11527-BSD	67-66-3	Chloroform	BSD	RPD	2	%	20
VL11527-BSD	74-87-3	Chloromethane	BSD	REC	74	%	70-130
VL11527-BSD	74-87-3	Chloromethane	BSD	RPD	1	%	20
VL11527-BSD	95-49-8	o-Chlorotoluene	BSD	REC	94	%	70-130
VL11527-BSD	95-49-8	o-Chlorotoluene	BSD	RPD	2	%	20
VL11527-BSD	106-43-4	p-Chlorotoluene	BSD	REC	94	%	70-130
VL11527-BSD	106-43-4	p-Chlorotoluene	BSD	RPD	0	%	20
VL11527-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	REC	87	%	70-130
VL11527-BSD	96-12-8	1,2-Dibromo-3-chloropropane	BSD	RPD	2	%	20
VL11527-BSD	124-48-1	Dibromochloromethane	BSD	REC	90	%	70-130
VL11527-BSD	124-48-1	Dibromochloromethane	BSD	RPD	4	%	20
VL11527-BSD	106-93-4	1,2-Dibromoethane	BSD	REC	97	%	70-130
VL11527-BSD	106-93-4	1,2-Dibromoethane	BSD	RPD	2	%	20
VL11527-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	94	%	70-130
VL11527-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	1	%	20
VL11527-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	92	%	70-130
VL11527-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	0	%	20
VL11527-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	92	%	70-130
VL11527-BSD	75-34-3	1,1-Dichloroethane	BSD	RPD	2	%	20
VL11527-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	96	%	70-130
VL11527-BSD	107-06-2	1,2-Dichloroethane	BSD	RPD	2	%	20
VL11527-BSD	75-35-4	1,1-Dichloroethene	BSD	REC	87	%	70-130
VL11527-BSD	75-35-4	1,1-Dichloroethene	BSD	RPD	0	%	20
VL11527-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	REC	91	%	70-130
VL11527-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	RPD	1	%	20
VL11527-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	REC	90	%	70-130
VL11527-BSD	156-60-5	trans-1,2-Dichloroethene	BSD	RPD	1	%	20
VL11527-BSD	78-87-5	1,2-Dichloropropane	BSD	REC	94	%	70-130
VL11527-BSD	78-87-5	1,2-Dichloropropane	BSD	RPD	2	%	20
VL11527-BSD	142-28-9	1,3-Dichloropropane	BSD	REC	96	%	70-130
VL11527-BSD	142-28-9	1,3-Dichloropropane	BSD	RPD	3	%	20
VL11527-BSD	594-20-7	2,2-Dichloropropane	BSD	REC	95	%	70-130
VL11527-BSD	594-20-7	2,2-Dichloropropane	BSD	RPD	1	%	20
VL11527-BSD	563-58-6	1,1-Dichloropropene	BSD	REC	100	%	70-130
VL11527-BSD	563-58-6	1,1-Dichloropropene	BSD	RPD	1	%	20
VL11527-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	REC	97	%	70-130
VL11527-BSD	10061-01-5	cis-1,3-Dichloropropene	BSD	RPD	3	%	20
VL11527-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	REC	98	%	70-130
VL11527-BSD	10061-02-6	trans-1,3-Dichloropropene	BSD	RPD	1	%	20

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11527-BSD	100-41-4	Ethylbenzene	BSD	REC	94	%	70-130
VL11527-BSD	100-41-4	Ethylbenzene	BSD	RPD	1	%	20
VL11527-BSD	87-68-3	Hexachlorobutadiene	BSD	REC	101	%	70-130
VL11527-BSD	87-68-3	Hexachlorobutadiene	BSD	RPD	2	%	20
VL11527-BSD	591-78-6	2-Hexanone	BSD	REC	99	%	70-130
VL11527-BSD	591-78-6	2-Hexanone	BSD	RPD	3	%	20
VL11527-BSD	98-82-8	Isopropylbenzene	BSD	REC	96	%	70-130
VL11527-BSD	98-82-8	Isopropylbenzene	BSD	RPD	1	%	20
VL11527-BSD	99-87-6	p-Isopropyltoluene	BSD	REC	97	%	70-130
VL11527-BSD	99-87-6	p-Isopropyltoluene	BSD	RPD	1	%	20
VL11527-BSD	108-10-1	4-Methyl-2-pentanone(MIBK)	BSD	REC	100	%	70-130
VL11527-BSD	108-10-1	4-Methyl-2-pentanone(MIBK)	BSD	RPD	4	%	20
VL11527-BSD	74-95-3	Methylene bromide	BSD	REC	89	%	70-130
VL11527-BSD	74-95-3	Methylene bromide	BSD	RPD	5	%	20
VL11527-BSD	75-09-2	Methylene chloride	BSD	REC	86	%	70-130
VL11527-BSD	75-09-2	Methylene chloride	BSD	RPD	2	%	20
VL11527-BSD	91-20-3	Naphthalene	BSD	REC	91	%	70-130
VL11527-BSD	91-20-3	Naphthalene	BSD	RPD	1	%	20
VL11527-BSD	103-65-1	n-Propylbenzene	BSD	REC	95	%	70-130
VL11527-BSD	103-65-1	n-Propylbenzene	BSD	RPD	0	%	20
VL11527-BSD	100-42-5	Styrene	BSD	REC	97	%	70-130
VL11527-BSD	100-42-5	Styrene	BSD	RPD	1	%	20
VL11527-BSD	630-20-6	1,1,1,2-Tetrachloroethane	BSD	REC	96	%	70-130
VL11527-BSD	630-20-6	1,1,1,2-Tetrachloroethane	BSD	RPD	1	%	20
VL11527-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	REC	93	%	70-130
VL11527-BSD	79-34-5	1,1,2,2-Tetrachloroethane	BSD	RPD	2	%	20
VL11527-BSD	127-18-4	Tetrachloroethene	BSD	REC	99	%	70-130
VL11527-BSD	127-18-4	Tetrachloroethene	BSD	RPD	0	%	20
VL11527-BSD	108-88-3	Toluene	BSD	REC	94	%	70-130
VL11527-BSD	108-88-3	Toluene	BSD	RPD	1	%	20
VL11527-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	REC	94	%	70-130
VL11527-BSD	87-61-6	1,2,3-Trichlorobenzene	BSD	RPD	0	%	25
VL11527-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	REC	93	%	70-130
VL11527-BSD	120-82-1	1,2,4-Trichlorobenzene	BSD	RPD	0	%	20
VL11527-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	93	%	70-130
VL11527-BSD	71-55-6	1,1,1-Trichloroethane	BSD	RPD	0	%	20
VL11527-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	97	%	70-130
VL11527-BSD	79-00-5	1,1,2-Trichloroethane	BSD	RPD	0	%	20
VL11527-BSD	79-01-6	Trichloroethene	BSD	REC	97	%	70-130
VL11527-BSD	79-01-6	Trichloroethene	BSD	RPD	2	%	20
VL11527-BSD	75-69-4	Trichlorofluoromethane	BSD	REC	79	%	70-130
VL11527-BSD	75-69-4	Trichlorofluoromethane	BSD	RPD	3	%	20
VL11527-BSD	96-18-4	1,2,3-Trichloropropane	BSD	REC	95	%	70-130
VL11527-BSD	96-18-4	1,2,3-Trichloropropane	BSD	RPD	0	%	20
VL11527-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	REC	97	%	70-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VL11527-BSD	95-63-6	1,2,4-Trimethylbenzene	BSD	RPD	0	%	20
VL11527-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	REC	95	%	70-130
VL11527-BSD	108-67-8	1,3,5-Trimethylbenzene	BSD	RPD	1	%	20
VL11527-BSD	75-01-4	Vinyl chloride	BSD	REC	79	%	70-130
VL11527-BSD	75-01-4	Vinyl chloride	BSD	RPD	1	%	20
VL11527-BSD		m,p-Xylene	BSD	REC	93	%	70-130
VL11527-BSD		m,p-Xylene	BSD	RPD	2	%	20
VL11527-BSD	95-47-6	o-Xylene	BSD	REC	94	%	70-130
VL11527-BSD	95-47-6	o-Xylene	BSD	RPD	1	%	20
VL11527-BSD	1868-53-7	Dibromofluoromethane	BSD	SURR	95	%	70-130
VL11527-BSD	2037-26-5	Toluene-D8	BSD	SURR	101	%	70-130
VL11527-BSD	460-00-4	4-Bromofluorobenzene	BSD	SURR	104	%	70-130
VL11527-MB	1868-53-7	Dibromofluoromethane	MB	SURR	97	%	70-130
VL11527-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	70-130
VL11527-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	102	%	70-130
JE24410-14	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JE24410-14	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JE24410-14	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	70-130
JE24410-15	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	70-130
JE24410-15	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-15	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	70-130
JE24410-17	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JE24410-17	2037-26-5	Toluene-D8	SAMP	SURR	96	%	70-130
JE24410-17	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
JE24410-19	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	70-130
JE24410-19	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JE24410-19	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	70-130
JE24410-22	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JE24410-22	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-22	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
JE24410-23	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JE24410-23	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JE24410-23	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	70-130
JE24410-29	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JE24410-29	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JE24410-29	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	70-130
OP69515A	SW846 8270E BY SIM						
OP69515A-BS1	123-91-1	1,4-Dioxane	BSP	REC	48	%	40-140
OP69515A-BS1	4165-60-0	Nitrobenzene-d5	BSP	SURR	76	%	30-130
OP69515A-BS1	321-60-8	2-Fluorobiphenyl	BSP	SURR	69	%	30-130
OP69515A-BS1	1718-51-0	Terphenyl-d14	BSP	SURR	80	%	30-130
OP69515A-MSA	123-91-1	1,4-Dioxane	MS	REC	44	%	40-140
OP69515A-MSA	4165-60-0	Nitrobenzene-d5	MS	SURR	73	%	30-130

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP69515A-MSA	321-60-8	2-Fluorobiphenyl	MS	SURR	67	%	30-130
OP69515A-MSA	1718-51-0	Terphenyl-d14	MS	SURR	79	%	30-130
OP69515A-MSDA	123-91-1	1,4-Dioxane	MSD	REC	39	%	40-140
OP69515A-MSDA	123-91-1	1,4-Dioxane	MSD	RPD	12	%	30
OP69515A-MSDA	4165-60-0	Nitrobenzene-d5	MSD	SURR	66	%	30-130
OP69515A-MSDA	321-60-8	2-Fluorobiphenyl	MSD	SURR	62	%	30-130
OP69515A-MSDA	1718-51-0	Terphenyl-d14	MSD	SURR	79	%	30-130
OP69515A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	92	%	30-130
OP69515A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	83	%	30-130
OP69515A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	102	%	30-130
JE24410-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	78	%	30-130
JE24410-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JE24410-1	1718-51-0	Terphenyl-d14	SAMP	SURR	77	%	30-130
JE24410-6	4165-60-0	Nitrobenzene-d5	SAMP	SURR	66	%	30-130
JE24410-6	321-60-8	2-Fluorobiphenyl	SAMP	SURR	65	%	30-130
JE24410-6	1718-51-0	Terphenyl-d14	SAMP	SURR	76	%	30-130
JE24410-11	4165-60-0	Nitrobenzene-d5	SAMP	SURR	69	%	30-130
JE24410-11	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	30-130
JE24410-11	1718-51-0	Terphenyl-d14	SAMP	SURR	85	%	30-130
JE24410-13	4165-60-0	Nitrobenzene-d5	SAMP	SURR	59	%	30-130
JE24410-13	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	30-130
JE24410-13	1718-51-0	Terphenyl-d14	SAMP	SURR	82	%	30-130
JE24410-14	4165-60-0	Nitrobenzene-d5	SAMP	SURR	64	%	30-130
JE24410-14	321-60-8	2-Fluorobiphenyl	SAMP	SURR	62	%	30-130
JE24410-14	1718-51-0	Terphenyl-d14	SAMP	SURR	71	%	30-130
JE24410-15	4165-60-0	Nitrobenzene-d5	SAMP	SURR	58	%	30-130
JE24410-15	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JE24410-15	1718-51-0	Terphenyl-d14	SAMP	SURR	67	%	30-130
JE24410-18	4165-60-0	Nitrobenzene-d5	SAMP	SURR	46	%	30-130
JE24410-18	321-60-8	2-Fluorobiphenyl	SAMP	SURR	47	%	30-130
JE24410-18	1718-51-0	Terphenyl-d14	SAMP	SURR	53	%	30-130
JE24410-19	4165-60-0	Nitrobenzene-d5	SAMP	SURR	51	%	30-130
JE24410-19	321-60-8	2-Fluorobiphenyl	SAMP	SURR	55	%	30-130
JE24410-19	1718-51-0	Terphenyl-d14	SAMP	SURR	70	%	30-130
JE24410-23	4165-60-0	Nitrobenzene-d5	SAMP	SURR	60	%	30-130
JE24410-23	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	30-130
JE24410-23	1718-51-0	Terphenyl-d14	SAMP	SURR	72	%	30-130
OP69611A	SW846 8270E BY SIM						
OP69611A-BS12	123-91-1	1,4-Dioxane	BSP	REC	49	%	40-140
OP69611A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	76	%	30-130
OP69611A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	68	%	30-130
OP69611A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	71	%	30-130
OP69611A-BSD12	123-91-1	1,4-Dioxane	BSD	REC	49	%	40-140

* Sample used for QC is not from job JE24410

QC Evaluation: MA MCP Limits

Job Number: JE24410
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 12/02/25 thru 12/03/25

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP69611A-BSD12	123-91-1	1,4-Dioxane	BSD	RPD	0	%	30
OP69611A-BSD12	4165-60-0	Nitrobenzene-d5	BSD	SURR	78	%	30-130
OP69611A-BSD12	321-60-8	2-Fluorobiphenyl	BSD	SURR	72	%	30-130
OP69611A-BSD12	1718-51-0	Terphenyl-d14	BSD	SURR	87	%	30-130
OP69611A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	63	%	30-130
OP69611A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	56	%	30-130
OP69611A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	69	%	30-130
JE24410-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	82	%	30-130
JE24410-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	30-130
JE24410-3	1718-51-0	Terphenyl-d14	SAMP	SURR	75	%	30-130
JE24410-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	74	%	30-130
JE24410-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	69	%	30-130
JE24410-4	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JE24410-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	61	%	30-130
JE24410-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	54	%	30-130
JE24410-5	1718-51-0	Terphenyl-d14	SAMP	SURR	67	%	30-130
JE24410-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	78	%	30-130
JE24410-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JE24410-7	1718-51-0	Terphenyl-d14	SAMP	SURR	69	%	30-130
JE24410-9	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	30-130
JE24410-9	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	30-130
JE24410-9	1718-51-0	Terphenyl-d14	SAMP	SURR	79	%	30-130
JE24410-10	4165-60-0	Nitrobenzene-d5	SAMP	SURR	80	%	30-130
JE24410-10	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JE24410-10	1718-51-0	Terphenyl-d14	SAMP	SURR	84	%	30-130
JE24410-12	4165-60-0	Nitrobenzene-d5	SAMP	SURR	84	%	30-130
JE24410-12	321-60-8	2-Fluorobiphenyl	SAMP	SURR	75	%	30-130
JE24410-12	1718-51-0	Terphenyl-d14	SAMP	SURR	86	%	30-130
JE24410-16	4165-60-0	Nitrobenzene-d5	SAMP	SURR	92	%	30-130
JE24410-16	321-60-8	2-Fluorobiphenyl	SAMP	SURR	85	%	30-130
JE24410-16	1718-51-0	Terphenyl-d14	SAMP	SURR	96	%	30-130
JE24410-20	4165-60-0	Nitrobenzene-d5	SAMP	SURR	83	%	30-130
JE24410-20	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JE24410-20	1718-51-0	Terphenyl-d14	SAMP	SURR	78	%	30-130
JE24410-21	4165-60-0	Nitrobenzene-d5	SAMP	SURR	80	%	30-130
JE24410-21	321-60-8	2-Fluorobiphenyl	SAMP	SURR	75	%	30-130
JE24410-21	1718-51-0	Terphenyl-d14	SAMP	SURR	84	%	30-130
JE24410-24	4165-60-0	Nitrobenzene-d5	SAMP	SURR	90	%	30-130
JE24410-24	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	30-130
JE24410-24	1718-51-0	Terphenyl-d14	SAMP	SURR	82	%	30-130

(a) Outside control limits.

* Sample used for QC is not from job JE24410

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11525-MB	L375271.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11525-MB	L375271.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	80-120%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	97%	82-114%

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11525-MB	L375271.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:**

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11527-MB	L375330.D	1	12/10/25	BK	n/a	n/a	VL11527

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-14, JE24410-15, JE24410-17, JE24410-19, JE24410-22, JE24410-23, JE24410-29

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11527-MB	L375330.D	1	12/10/25	BK	n/a	n/a	VL11527

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-14, JE24410-15, JE24410-17, JE24410-19, JE24410-22, JE24410-23, JE24410-29

CAS No.	Compound	Result	RL	Units	Q
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	107%	80-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	102%	82-114%

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11527-MB	L375330.D	1	12/10/25	BK	n/a	n/a	VL11527

The QC reported here applies to the following samples: **Method:**

JE24410-14, JE24410-15, JE24410-17, JE24410-19, JE24410-22, JE24410-23, JE24410-29

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11525-BS	L375268.D	1	12/09/25	BK	n/a	n/a	VL11525
VL11525-BSD	L375269.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	200	178	89	212	106	17	27-175/31
107-13-1	Acrylonitrile	50	45.2	90	50.8	102	12	59-144/12
71-43-2	Benzene	50	47.2	94	50.5	101	7	80-115/11
108-86-1	Bromobenzene	50	45.2	90	47.6	95	5	79-119/11
74-97-5	Bromochloromethane	50	44.9	90	46.9	94	4	83-122/10
75-27-4	Bromodichloromethane	50	45.5	91	49.1	98	8	82-119/12
75-25-2	Bromoform	50	44.9	90	46.2	92	3	77-135/11
74-83-9	Bromomethane	50	46.8	94	47.9	96	2	40-162/23
78-93-3	2-Butanone (MEK)	200	201	101	218	109	8	61-150/16
104-51-8	n-Butylbenzene	50	49.2	98	51.6	103	5	77-124/12
135-98-8	sec-Butylbenzene	50	48.4	97	50.9	102	5	75-121/12
98-06-6	tert-Butylbenzene	50	46.7	93	48.9	98	5	74-120/11
56-23-5	Carbon tetrachloride	50	44.0	88	47.5	95	8	75-127/11
108-90-7	Chlorobenzene	50	46.8	94	48.6	97	4	80-115/10
75-00-3	Chloroethane	50	45.7	91	46.8	94	2	56-144/14
67-66-3	Chloroform	50	43.6	87	46.3	93	6	75-116/10
74-87-3	Chloromethane	50	40.5	81	43.9	88	8	41-153/14
95-49-8	o-Chlorotoluene	50	46.7	93	49.0	98	5	79-119/11
106-43-4	p-Chlorotoluene	50	47.4	95	48.8	98	3	77-117/11
96-12-8	1,2-Dibromo-3-chloropropane	50	42.9	86	46.2	92	7	69-134/11
124-48-1	Dibromochloromethane	50	45.8	92	47.5	95	4	81-123/11
106-93-4	1,2-Dibromoethane	50	48.6	97	51.2	102	5	67-138/11
541-73-1	1,3-Dichlorobenzene	50	46.7	93	48.9	98	5	81-115/10
106-46-7	1,4-Dichlorobenzene	50	46.4	93	48.9	98	5	80-114/10
75-34-3	1,1-Dichloroethane	50	45.5	91	48.2	96	6	75-125/11
107-06-2	1,2-Dichloroethane	50	46.7	93	50.0	100	7	73-117/10
75-35-4	1,1-Dichloroethene	50	43.9	88	52.4	105	18* [a]	70-124/12
156-59-2	cis-1,2-Dichloroethene	50	45.8	92	48.6	97	6	80-120/10
156-60-5	trans-1,2-Dichloroethene	50	45.2	90	52.8	106	16* [a]	77-121/12
78-87-5	1,2-Dichloropropane	50	46.9	94	50.5	101	7	79-121/10
142-28-9	1,3-Dichloropropane	50	49.3	99	50.6	101	3	81-117/11
594-20-7	2,2-Dichloropropane	50	46.1	92	49.9	100	8	70-131/12
563-58-6	1,1-Dichloropropene	50	47.8	96	51.5	103	7	77-122/10
10061-01-5	cis-1,3-Dichloropropene	50	48.4	97	51.8	104	7	83-123/11
10061-02-6	trans-1,3-Dichloropropene	50	47.6	95	49.9	100	5	83-122/12
100-41-4	Ethylbenzene	50	47.1	94	49.2	98	4	78-116/10

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11525-BS	L375268.D	1	12/09/25	BK	n/a	n/a	VL11525
VL11525-BSD	L375269.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	50	49.7	99	53.2	106	7	55-136/14
591-78-6	2-Hexanone	200	195	98	204	102	5	66-136/14
98-82-8	Isopropylbenzene	50	48.0	96	50.1	100	4	78-121/11
99-87-6	p-Isopropyltoluene	50	48.4	97	51.1	102	5	78-121/12
108-10-1	4-Methyl-2-pentanone(MIBK)	200	202	101	213	107	5	73-134/13
74-95-3	Methylene bromide	50	46.2	92	49.2	98	6	82-117/10
75-09-2	Methylene chloride	50	44.0	88	51.0	102	15* [a]	73-123/11
91-20-3	Naphthalene	50	45.6	91	48.6	97	6	64-136/13
103-65-1	n-Propylbenzene	50	48.3	97	50.6	101	5	75-121/11
100-42-5	Styrene	50	48.9	98	50.5	101	3	81-125/10
630-20-6	1,1,1,2-Tetrachloroethane	50	47.2	94	49.3	99	4	81-124/10
79-34-5	1,1,2,2-Tetrachloroethane	50	48.7	97	50.9	102	4	73-126/12
127-18-4	Tetrachloroethene	50	48.4	97	50.5	101	4	73-119/12
108-88-3	Toluene	50	46.5	93	48.8	98	5	79-116/12
87-61-6	1,2,3-Trichlorobenzene	50	46.0	92	49.1	98	7	63-137/13
120-82-1	1,2,4-Trichlorobenzene	50	46.3	93	47.9	96	3	68-135/12
71-55-6	1,1,1-Trichloroethane	50	45.9	92	48.7	97	6	76-124/11
79-00-5	1,1,2-Trichloroethane	50	49.4	99	50.9	102	3	83-117/11
79-01-6	Trichloroethene	50	47.7	95	51.9	104	8	80-118/11
75-69-4	Trichlorofluoromethane	50	46.1	92	48.2	96	4	67-134/13
96-18-4	1,2,3-Trichloropropane	50	47.7	95	49.1	98	3	75-123/11
95-63-6	1,2,4-Trimethylbenzene	50	48.5	97	50.9	102	5	78-120/10
108-67-8	1,3,5-Trimethylbenzene	50	48.1	96	50.4	101	5	77-120/11
75-01-4	Vinyl chloride	50	45.9	92	47.3	95	3	52-146/15
	m,p-Xylene	100	93.3	93	97.6	98	5	79-119/10
95-47-6	o-Xylene	50	46.7	93	48.7	97	4	81-119/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	95%	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	96%	100%	80-120%
2037-26-5	Toluene-D8	102%	101%	80-120%
460-00-4	4-Bromofluorobenzene	101%	102%	82-114%

(a) Outside control limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11527-BS	L375327.D	1	12/10/25	BK	n/a	n/a	VL11527
VL11527-BSD	L375328.D	1	12/10/25	BK	n/a	n/a	VL11527

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-14, JE24410-15, JE24410-17, JE24410-19, JE24410-22, JE24410-23, JE24410-29

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	200	186	93	176	88	6	27-175/31
107-13-1	Acrylonitrile	50	49.2	98	47.3	95	4	59-144/12
71-43-2	Benzene	50	47.5	95	46.6	93	2	80-115/11
108-86-1	Bromobenzene	50	45.2	90	45.4	91	0	79-119/11
74-97-5	Bromochloromethane	50	44.6	89	42.2	84	6	83-122/10
75-27-4	Bromodichloromethane	50	47.6	95	46.4	93	3	82-119/12
75-25-2	Bromoform	50	46.3	93	44.6	89	4	77-135/11
74-83-9	Bromomethane	50	41.5	83	39.0	78	6	40-162/23
78-93-3	2-Butanone (MEK)	200	203	102	201	101	1	61-150/16
104-51-8	n-Butylbenzene	50	47.9	96	48.4	97	1	77-124/12
135-98-8	sec-Butylbenzene	50	47.4	95	48.0	96	1	75-121/12
98-06-6	tert-Butylbenzene	50	46.4	93	46.5	93	0	74-120/11
56-23-5	Carbon tetrachloride	50	45.8	92	45.9	92	0	75-127/11
108-90-7	Chlorobenzene	50	47.4	95	46.7	93	1	80-115/10
75-00-3	Chloroethane	50	40.2	80	39.4	79	2	56-144/14
67-66-3	Chloroform	50	44.3	89	43.6	87	2	75-116/10
74-87-3	Chloromethane	50	37.5	75	37.0	74	1	41-153/14
95-49-8	o-Chlorotoluene	50	45.9	92	47.0	94	2	79-119/11
106-43-4	p-Chlorotoluene	50	46.8	94	47.0	94	0	77-117/11
96-12-8	1,2-Dibromo-3-chloropropane	50	44.1	88	43.4	87	2	69-134/11
124-48-1	Dibromochloromethane	50	47.0	94	45.2	90	4	81-123/11
106-93-4	1,2-Dibromoethane	50	49.7	99	48.6	97	2	67-138/11
541-73-1	1,3-Dichlorobenzene	50	46.6	93	46.9	94	1	81-115/10
106-46-7	1,4-Dichlorobenzene	50	46.3	93	46.1	92	0	80-114/10
75-34-3	1,1-Dichloroethane	50	46.5	93	45.8	92	2	75-125/11
107-06-2	1,2-Dichloroethane	50	49.0	98	48.0	96	2	73-117/10
75-35-4	1,1-Dichloroethene	50	43.6	87	43.4	87	0	70-124/12
156-59-2	cis-1,2-Dichloroethene	50	45.9	92	45.4	91	1	80-120/10
156-60-5	trans-1,2-Dichloroethene	50	44.3	89	44.8	90	1	77-121/12
78-87-5	1,2-Dichloropropane	50	48.0	96	46.9	94	2	79-121/10
142-28-9	1,3-Dichloropropane	50	49.7	99	48.0	96	3	81-117/11
594-20-7	2,2-Dichloropropane	50	47.7	95	47.4	95	1	70-131/12
563-58-6	1,1-Dichloropropene	50	49.2	98	49.8	100	1	77-122/10
10061-01-5	cis-1,3-Dichloropropene	50	50.1	100	48.5	97	3	83-123/11
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	49.2	98	1	83-122/12
100-41-4	Ethylbenzene	50	47.5	95	46.8	94	1	78-116/10

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL11527-BS	L375327.D	1	12/10/25	BK	n/a	n/a	VL11527
VL11527-BSD	L375328.D	1	12/10/25	BK	n/a	n/a	VL11527

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-14, JE24410-15, JE24410-17, JE24410-19, JE24410-22, JE24410-23, JE24410-29

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	50	49.5	99	50.7	101	2	55-136/14
591-78-6	2-Hexanone	200	204	102	198	99	3	66-136/14
98-82-8	Isopropylbenzene	50	48.5	97	48.1	96	1	78-121/11
99-87-6	p-Isopropyltoluene	50	47.9	96	48.5	97	1	78-121/12
108-10-1	4-Methyl-2-pentanone(MIBK)	200	208	104	199	100	4	73-134/13
74-95-3	Methylene bromide	50	46.9	94	44.7	89	5	82-117/10
75-09-2	Methylene chloride	50	43.8	88	42.8	86	2	73-123/11
91-20-3	Naphthalene	50	45.9	92	45.6	91	1	64-136/13
103-65-1	n-Propylbenzene	50	47.3	95	47.5	95	0	75-121/11
100-42-5	Styrene	50	49.3	99	48.7	97	1	81-125/10
630-20-6	1,1,1,2-Tetrachloroethane	50	48.4	97	47.8	96	1	81-124/10
79-34-5	1,1,2,2-Tetrachloroethane	50	47.6	95	46.7	93	2	73-126/12
127-18-4	Tetrachloroethene	50	49.4	99	49.3	99	0	73-119/12
108-88-3	Toluene	50	47.8	96	47.2	94	1	79-116/12
87-61-6	1,2,3-Trichlorobenzene	50	46.7	93	46.9	94	0	63-137/13
120-82-1	1,2,4-Trichlorobenzene	50	46.8	94	46.6	93	0	68-135/12
71-55-6	1,1,1-Trichloroethane	50	46.8	94	46.7	93	0	76-124/11
79-00-5	1,1,2-Trichloroethane	50	48.8	98	48.7	97	0	83-117/11
79-01-6	Trichloroethene	50	49.7	99	48.6	97	2	80-118/11
75-69-4	Trichlorofluoromethane	50	40.7	81	39.6	79	3	67-134/13
96-18-4	1,2,3-Trichloropropane	50	47.7	95	47.6	95	0	75-123/11
95-63-6	1,2,4-Trimethylbenzene	50	48.3	97	48.3	97	0	78-120/10
108-67-8	1,3,5-Trimethylbenzene	50	47.4	95	47.7	95	1	77-120/11
75-01-4	Vinyl chloride	50	39.9	80	39.6	79	1	52-146/15
	m,p-Xylene	100	94.5	95	92.7	93	2	79-119/10
95-47-6	o-Xylene	50	47.7	95	47.0	94	1	81-119/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	95%	95%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	101%	80-120%
2037-26-5	Toluene-D8	102%	101%	80-120%
460-00-4	4-Bromofluorobenzene	101%	104%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE24410-1MS	L375280.D	1	12/09/25	BK	n/a	n/a	VL11525
JE24410-1MSD	L375281.D	1	12/09/25	BK	n/a	n/a	VL11525
JE24410-1 [a]	L375273.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	JE24410-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		200	190	95	200	185	93	3	22-134/19
107-13-1	Acrylonitrile	ND		50	48.6	97	50	46.5	93	4	45-150/17
71-43-2	Benzene	ND		50	49.3	99	50	47.6	95	4	49-137/12
108-86-1	Bromobenzene	ND		50	45.3	91	50	44.3	89	2	72-122/13
74-97-5	Bromochloromethane	ND		50	47.9	96	50	46.7	93	3	78-122/12
75-27-4	Bromodichloromethane	ND		50	48.7	97	50	47.1	94	3	76-121/12
75-25-2	Bromoform	ND		50	45.2	90	50	44.1	88	2	70-133/13
74-83-9	Bromomethane	ND		50	48.9	98	50	51.7	103	6	27-164/38
78-93-3	2-Butanone (MEK)	ND		200	207	104	200	205	103	1	52-137/17
104-51-8	n-Butylbenzene	ND		50	50.3	101	50	49.1	98	2	70-130/14
135-98-8	sec-Butylbenzene	ND		50	49.5	99	50	48.2	96	3	69-127/14
98-06-6	tert-Butylbenzene	ND		50	47.0	94	50	46.5	93	1	69-124/14
56-23-5	Carbon tetrachloride	ND		50	48.5	97	50	46.4	93	4	70-132/13
108-90-7	Chlorobenzene	ND		50	47.5	95	50	46.3	93	3	68-123/12
75-00-3	Chloroethane	ND		50	47.9	96	50	50.4	101	5	48-152/17
67-66-3	Chloroform	ND		50	46.6	93	50	45.0	90	3	68-120/13
74-87-3	Chloromethane	ND		50	42.3	85	50	45.1	90	6	35-156/18
95-49-8	o-Chlorotoluene	ND		50	46.8	94	50	45.4	91	3	73-123/13
106-43-4	p-Chlorotoluene	ND		50	47.0	94	50	45.7	91	3	71-120/13
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	42.1	84	50	42.0	84	0	63-134/16
124-48-1	Dibromochloromethane	ND		50	46.3	93	50	45.0	90	3	75-122/12
106-93-4	1,2-Dibromoethane	ND		50	49.2	98	50	47.7	95	3	63-134/12
541-73-1	1,3-Dichlorobenzene	ND		50	46.7	93	50	46.0	92	2	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		50	46.7	93	50	45.2	90	3	72-117/12
75-34-3	1,1-Dichloroethane	ND		50	49.1	98	50	47.5	95	3	68-129/13
107-06-2	1,2-Dichloroethane	ND		50	48.6	97	50	47.7	95	2	66-120/13
75-35-4	1,1-Dichloroethene	ND		50	49.1	98	50	46.8	94	5	59-133/15
156-59-2	cis-1,2-Dichloroethene	1.0		50	50.3	99	50	49.0	96	3	52-140/12
156-60-5	trans-1,2-Dichloroethene	ND		50	49.1	98	50	47.6	95	3	70-125/13
78-87-5	1,2-Dichloropropane	ND		50	49.9	100	50	47.8	96	4	73-124/12
142-28-9	1,3-Dichloropropane	ND		50	49.1	98	50	47.9	96	2	74-117/11
594-20-7	2,2-Dichloropropane	ND		50	50.3	101	50	49.1	98	2	62-138/13
563-58-6	1,1-Dichloropropene	ND		50	52.3	105	50	50.7	101	3	71-129/13
10061-01-5	cis-1,3-Dichloropropene	ND		50	50.6	101	50	49.1	98	3	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		50	48.1	96	50	48.2	96	0	75-122/12
100-41-4	Ethylbenzene	ND		50	48.9	98	50	47.1	94	4	37-144/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE24410-1MS	L375280.D	1	12/09/25	BK	n/a	n/a	VL11525
JE24410-1MSD	L375281.D	1	12/09/25	BK	n/a	n/a	VL11525
JE24410-1 [a]	L375273.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	JE24410-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	ND		50	50.2	100	50	50.3	101	0	49-141/19
591-78-6	2-Hexanone	ND		200	193	97	200	192	96	1	56-132/16
98-82-8	Isopropylbenzene	ND		50	50.0	100	50	48.4	97	3	71-126/13
99-87-6	p-Isopropyltoluene	ND		50	49.0	98	50	48.2	96	2	71-126/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	200	100	200	197	99	2	65-135/14
74-95-3	Methylene bromide	ND		50	48.2	96	50	46.8	94	3	76-116/12
75-09-2	Methylene chloride	ND		50	46.7	93	50	45.3	91	3	66-125/14
91-20-3	Naphthalene	ND		50	44.9	90	50	45.1	90	0	49-146/18
103-65-1	n-Propylbenzene	ND		50	49.0	98	50	47.8	96	2	60-131/14
100-42-5	Styrene	ND		50	49.7	99	50	48.3	97	3	71-133/12
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	48.2	96	50	46.4	93	4	75-125/12
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	47.0	94	50	46.5	93	1	68-127/14
127-18-4	Tetrachloroethene	ND		50	50.0	100	50	48.3	97	3	58-132/13
108-88-3	Toluene	ND		50	47.6	95	50	46.6	93	2	46-139/12
87-61-6	1,2,3-Trichlorobenzene	ND		50	46.0	92	50	45.9	92	0	57-136/17
120-82-1	1,2,4-Trichlorobenzene	ND		50	46.3	93	50	45.1	90	3	61-137/16
71-55-6	1,1,1-Trichloroethane	ND		50	49.5	99	50	47.8	96	3	67-132/13
79-00-5	1,1,2-Trichloroethane	ND		50	49.5	99	50	47.9	96	3	75-120/12
79-01-6	Trichloroethene	ND		50	50.9	102	50	50.1	100	2	56-136/12
75-69-4	Trichlorofluoromethane	ND		50	51.4	103	50	52.6	105	2	61-145/16
96-18-4	1,2,3-Trichloropropane	ND		50	45.9	92	50	45.9	92	0	68-124/14
95-63-6	1,2,4-Trimethylbenzene	ND		50	48.8	98	50	47.7	95	2	39-147/13
108-67-8	1,3,5-Trimethylbenzene	ND		50	48.0	96	50	46.9	94	2	56-136/14
75-01-4	Vinyl chloride	ND		50	48.7	97	50	50.9	102	4	41-156/16
	m,p-Xylene	ND		100	95.3	95	100	93.5	94	2	32-151/12
95-47-6	o-Xylene	ND		50	47.7	95	50	46.7	93	2	50-139/12

CAS No.	Surrogate Recoveries	MS	MSD	JE24410-1	Limits
1868-53-7	Dibromofluoromethane	102%	101%	100%	80-120%
17060-07-0	1,2-Dichloroethane-D4	103%	103%	104%	80-120%
2037-26-5	Toluene-D8	99%	100%	98%	80-120%
460-00-4	4-Bromofluorobenzene	100%	100%	96%	82-114%

(a) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE24410-1MS	L375280.D	1	12/09/25	BK	n/a	n/a	VL11525
JE24410-1MSD	L375281.D	1	12/09/25	BK	n/a	n/a	VL11525
JE24410-1 [a]	L375273.D	1	12/09/25	BK	n/a	n/a	VL11525

The QC reported here applies to the following samples: **Method:** SW846 8260D

JE24410-1, JE24410-3, JE24410-4, JE24410-5, JE24410-6, JE24410-7, JE24410-9, JE24410-10, JE24410-11, JE24410-12, JE24410-13, JE24410-14, JE24410-15, JE24410-16, JE24410-18, JE24410-20, JE24410-21, JE24410-24

screening only and cannot be used for compliance purposes.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std: VL11525-CC11495 **Injection Date:** 12/09/25
Lab File ID: L375266.D **Injection Time:** 10:44
Instrument ID: GCMSL **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	271735	2.60	272876	3.75	441442	4.29	352055	6.61	167477	8.77
Upper Limit [a]	543470	3.10	545752	4.25	882884	4.79	704110	7.11	334954	9.27
Lower Limit [b]	135868	2.10	136438	3.25	220721	3.79	176028	6.11	83739	8.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VL11525-BS	264409	2.61	289454	3.75	459725	4.28	356265	6.61	167441	8.77
VL11525-BSD	316476	2.60	283319	3.75	445212	4.28	354145	6.60	165676	8.77
VL11525-MB	231547	2.60	265628	3.75	400105	4.29	323462	6.61	153010	8.77
ZZZZZZ	226837	2.61	242895	3.75	372501	4.28	306647	6.61	147950	8.77
JE24410-1 [c]	240429	2.61	260079	3.75	394295	4.29	328758	6.61	160954	8.77
JE24410-3 [c]	284507	2.60	291213	3.75	434914	4.28	324055	6.61	158579	8.77
JE24410-4 [c]	223482	2.60	250122	3.75	380509	4.28	307811	6.61	149170	8.77
JE24410-5 [c]	229582	2.60	248273	3.75	376751	4.28	308485	6.61	152552	8.77
JE24410-7 [c]	268172	2.60	251153	3.75	385926	4.28	319527	6.61	152864	8.77
JE24410-9 [c]	232556	2.61	250436	3.75	381945	4.29	307799	6.61	146398	8.77
JE24410-10 [c]	251597	2.61	244099	3.75	384796	4.29	300298	6.61	146293	8.77
JE24410-1MS	265080	2.61	263372	3.75	423692	4.29	341551	6.61	165650	8.77
JE24410-1MSD	278961	2.61	272484	3.75	437808	4.29	349333	6.61	168771	8.77
JE24410-10 [c]	247616	2.61	261205	3.75	393410	4.28	322839	6.61	155064	8.77
JE24410-12 [c]	273402	2.60	254342	3.75	388077	4.29	324822	6.61	157260	8.77
JE24410-16 [c]	249386	2.60	260862	3.75	399240	4.28	329716	6.61	158116	8.77
JE24410-20 [c]	278017	2.60	290532	3.75	426592	4.28	313075	6.61	150543	8.77
JE24410-21 [c]	230406	2.61	252314	3.76	383806	4.29	313544	6.61	151673	8.77
JE24410-24 [c]	241392	2.61	246240	3.76	368757	4.29	299789	6.61	143503	8.77
JE24410-6 [c]	212306	2.61	240821	3.76	360744	4.29	300577	6.61	145420	8.78
JE24410-11 [c]	215383	2.61	246028	3.75	372482	4.29	305433	6.61	145673	8.77
JE24410-13 [c]	261190	2.61	275568	3.75	380871	4.29	307481	6.61	151135	8.77
JE24410-14 [d]	224591	2.61	251955	3.75	389818	4.29	309549	6.61	145068	8.77
JE24410-15 [d]	225303	2.61	253186	3.75	395783	4.29	324074	6.61	156187	8.77
JE24410-18 [c]	275704	2.61	283745	3.75	422894	4.29	352658	6.61	170170	8.77

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Results reported from the HCl preserved sample. The reported result for acrolein and acrylonitrile are for

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	VL11525-CC11495	**Injection Date:**	12/09/25
Lab File ID:	L375266.D	**Injection Time:**	10:44
Instrument ID:	GCMSL	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT

screening only and cannot be used for compliance purposes.

(d) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only and cannot be used for compliance purposes.

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std: VL11527-CC11495 **Injection Date:** 12/10/25
Lab File ID: L375325.D **Injection Time:** 11:41
Instrument ID: GCMSL **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	285286	2.60	304242	3.75	476345	4.28	381890	6.61	179872	8.77
Upper Limit [a]	570572	3.10	608484	4.25	952690	4.78	763780	7.11	359744	9.27
Lower Limit [b]	142643	2.10	152121	3.25	238173	3.78	190945	6.11	89936	8.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VL11527-BS	342216	2.61	321148	3.75	509561	4.29	399319	6.61	193483	8.77
VL11527-BSD	352306	2.61	340602	3.75	542116	4.29	422827	6.61	200489	8.77
VL11527-MB	310646	2.61	311111	3.75	472299	4.29	379716	6.61	180220	8.77
ZZZZZZ	302699	2.61	301370	3.76	459519	4.29	376192	6.61	178214	8.77
JE24410-17 [c]	316116	2.60	295882	3.75	452271	4.28	386076	6.61	185697	8.77
ZZZZZZ	308894	2.61	308157	3.75	462916	4.28	379664	6.61	182461	8.77
JE24410-15 [c]	295960	2.60	293233	3.75	446685	4.29	361419	6.61	173931	8.77
JE24785-1	306085	2.61	295366	3.75	452794	4.29	365265	6.61	172010	8.77
ZZZZZZ	301699	2.61	296983	3.75	456411	4.28	368789	6.61	173299	8.77
ZZZZZZ	292346	2.61	304102	3.75	459063	4.29	371210	6.61	170313	8.77
JE24785-1MS	327504	2.61	317121	3.75	509979	4.29	399604	6.61	187163	8.77
JE24785-1MSD	353995	2.61	327032	3.75	518047	4.29	415548	6.61	197774	8.78
JE24410-14 [c]	321658	2.61	306491	3.76	470257	4.29	385623	6.61	185010	8.77
ZZZZZZ	311277	2.61	307504	3.75	469349	4.29	383767	6.61	183938	8.77
JE24410-29 [c]	301310	2.61	309829	3.75	475514	4.29	387531	6.61	183845	8.77
JE24410-19 [c]	301434	2.61	309292	3.75	467346	4.29	389078	6.61	186847	8.77
JE24410-22 [c]	277623	2.61	291312	3.75	439718	4.29	361984	6.61	175514	8.78
JE24410-23 [c]	275473	2.60	282590	3.75	440989	4.28	365755	6.61	175885	8.77
ZZZZZZ	284636	2.61	296538	3.75	453707	4.29	366727	6.61	173652	8.77
ZZZZZZ	290428	2.61	294158	3.75	451734	4.29	371396	6.61	177598	8.77
ZZZZZZ	263899	2.60	291779	3.75	447538	4.29	360509	6.61	171322	8.77
ZZZZZZ	283119	2.61	293050	3.75	450476	4.29	361436	6.61	173478	8.77
ZZZZZZ	281697	2.61	294396	3.75	439503	4.29	358335	6.61	170356	8.77
ZZZZZZ	287785	2.61	293460	3.75	449983	4.29	369937	6.61	179770	8.77
ZZZZZZ	278735	2.60	289415	3.75	439496	4.28	360262	6.61	172833	8.78

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Results reported from the HCl preserved sample. The reported result for acrylonitrile is for screening only

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	VL11527-CC11495	**Injection Date:**	12/10/25
Lab File ID:	L375325.D	**Injection Time:**	11:41
Instrument ID:	GCMSL	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT

and cannot be used for compliance purposes.

Surrogate Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE24410-1	L375273.D	100	104	98	96
JE24410-3	L375274.D	97	109	98	95
JE24410-4	L375275.D	98	99	100	97
JE24410-5	L375276.D	99	102	99	94
JE24410-6	L375288.D	98	101	97	96
JE24410-7	L375277.D	100	107	97	99
JE24410-9	L375278.D	99	101	100	98
JE24410-10	L375282.D	97	102	98	96
JE24410-10	L375279.D	96	95	99	95
JE24410-11	L375289.D	99	103	98	98
JE24410-12	L375283.D	99	105	98	97
JE24410-13	L375290.D	101	110	99	96
JE24410-14	L375340.D	100	112	97	103
JE24410-14	L375291.D	99	99	100	99
JE24410-15	L375334.D	98	109	99	102
JE24410-15	L375292.D	101	101	97	97
JE24410-16	L375284.D	101	104	98	98
JE24410-17	L375332.D	100	115	96	101
JE24410-18	L375294.D	98	110	99	101
JE24410-19	L375343.D	98	111	97	102
JE24410-20	L375285.D	97	110	101	98
JE24410-21	L375286.D	100	104	99	97
JE24410-22	L375344.D	99	108	99	101
JE24410-23	L375345.D	100	109	97	102
JE24410-24	L375287.D	96	100	99	97
JE24410-29	L375342.D	99	109	99	103
JE24410-1MS	L375280.D	102	103	99	100
JE24410-1MSD	L375281.D	101	103	100	100
VL11525-BS	L375268.D	95	96	102	101
VL11525-BSD	L375269.D	97	100	101	102
VL11525-MB	L375271.D	97	100	99	97
VL11527-BS	L375327.D	95	102	102	101
VL11527-BSD	L375328.D	95	101	101	104
VL11527-MB	L375330.D	97	107	100	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%

Surrogate Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection/Internal Standard Area Summaries
- Isotope Dilution Standard/Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69515A-MB1	2M145373.D	1	12/05/25	AC	12/04/25	OP69515A	E2M6568

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE24410-1, JE24410-6, JE24410-11, JE24410-13, JE24410-14, JE24410-15, JE24410-18, JE24410-19, JE24410-23

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	92%	29-124%
321-60-8	2-Fluorobiphenyl	83%	23-122%
1718-51-0	Terphenyl-d14	102%	22-130%

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69611A-MB1	2M145551.D	1	12/10/25	AC	12/09/25	OP69611A	E2M6575

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE24410-3, JE24410-4, JE24410-5, JE24410-7, JE24410-9, JE24410-10, JE24410-12, JE24410-16, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	63%	29-124%
321-60-8	2-Fluorobiphenyl	56%	23-122%
1718-51-0	Terphenyl-d14	69%	22-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q473-IBLK	2Q39317.D	1	12/01/25	AM	n/a	n/a	T2Q473

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q473-IBLK	2Q39317.D	1	12/01/25	AM	n/a	n/a	T2Q473

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	105%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	106%	40-130%
	13C8-PFOA	96%	40-130%
	13C9-PFNA	99%	40-130%
	13C6-PFDA	102%	40-130%
	13C7-PFUnDA	109%	30-130%
	13C2-PFDoDA	100%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	107%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	98%	40-130%
	13C8-FOSA	102%	40-130%
	d3-MeFOSA	99%	10-130%
	d5-EtFOSA	104%	10-130%
	d3-MeFOSAA	104%	40-170%
	d5-EtFOSAA	110%	25-135%
	d7-MeFOSE	104%	10-130%
	d9-EtFOSE	104%	10-130%
	13C2-4:2FTS	111%	40-200%
	13C2-6:2FTS	119%	40-200%
	13C2-8:2FTS	102%	40-300%
	13C3-HFPO-DA	103%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q487-IBLK	1Q30962.D	1	12/02/25	VL	n/a	n/a	T1Q487

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-6

CAS No.	Compound	Result	RL	Units	Q
2991-50-6	EtFOSAA	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	101%	5-130%
	13C5-PFPeA	98%	40-130%
	13C5-PFHxA	96%	40-130%
	13C4-PFHpA	99%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	93%	40-130%
	13C6-PFDA	103%	40-130%
	13C7-PFUnDA	102%	30-130%
	13C2-PFDoDA	96%	10-130%
	13C2-PFTeDA	101%	10-130%
	13C3-PFBS	101%	40-135%
	13C3-PFHxS	108%	40-130%
	13C8-PFOS	100%	40-130%
	13C8-FOSA	101%	40-130%
	d3-MeFOSA	96%	10-130%
	d5-EtFOSA	95%	10-130%
	d3-MeFOSAA	91%	40-170%
	d5-EtFOSAA	95%	25-135%
	d7-MeFOSE	98%	10-130%
	d9-EtFOSE	93%	10-130%
	13C2-4:2FTS	111%	40-200%
	13C2-6:2FTS	116%	40-200%
	13C2-8:2FTS	109%	40-300%
	13C3-HFPO-DA	102%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-IBLK	2Q39461.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-IBLK	2Q39461.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	99%	40-130%
	13C5-PFHxA	96%	40-130%
	13C4-PFHpA	100%	40-130%
	13C8-PFOA	101%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	104%	40-130%
	13C7-PFUnDA	103%	30-130%
	13C2-PFDoDA	96%	10-130%
	13C2-PFTeDA	96%	10-130%
	13C3-PFBS	93%	40-135%
	13C3-PFHxS	89%	40-130%
	13C8-PFOS	97%	40-130%
	13C8-FOSA	101%	40-130%
	d3-MeFOSA	99%	10-130%
	d5-EtFOSA	104%	10-130%
	d3-MeFOSAA	101%	40-170%
	d5-EtFOSAA	104%	25-135%
	d7-MeFOSE	102%	10-130%
	d9-EtFOSE	105%	10-130%
	13C2-4:2FTS	103%	40-200%
	13C2-6:2FTS	108%	40-200%
	13C2-8:2FTS	98%	40-300%
	13C3-HFPO-DA	96%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q492-IBLK	1Q31121.D	1	12/09/25	AM	n/a	n/a	T1Q492

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-6

CAS No.	Compound	Result	RL	Units	Q
2991-50-6	EtFOSAA	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	103%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	97%	40-130%
	13C8-PFOA	97%	40-130%
	13C9-PFNA	96%	40-130%
	13C6-PFDA	97%	40-130%
	13C7-PFUnDA	94%	30-130%
	13C2-PFDoDA	92%	10-130%
	13C2-PFTeDA	86%	10-130%
	13C3-PFBS	96%	40-135%
	13C3-PFHxS	95%	40-130%
	13C8-PFOS	107%	40-130%
	13C8-FOSA	110%	40-130%
	d3-MeFOSA	96%	10-130%
	d5-EtFOSA	91%	10-130%
	d3-MeFOSAA	89%	40-170%
	d5-EtFOSAA	92%	25-135%
	d7-MeFOSE	92%	10-130%
	d9-EtFOSE	90%	10-130%
	13C2-4:2FTS	106%	40-200%
	13C2-6:2FTS	96%	40-200%
	13C2-8:2FTS	86%	40-300%
	13C3-HFPO-DA	82%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T5Q243-IBLK	5Q5078.D	1	12/09/25	MH	n/a	n/a	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T5Q243-IBLK	5Q5078.D	1	12/09/25	MH	n/a	n/a	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	5-130%
	13C5-PFPeA	104%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	106%	40-130%
	13C8-PFOA	106%	40-130%
	13C9-PFNA	99%	40-130%
	13C6-PFDA	106%	40-130%
	13C7-PFUnDA	105%	30-130%
	13C2-PFDoDA	100%	10-130%
	13C2-PFTeDA	99%	10-130%
	13C3-PFBS	114%	40-135%
	13C3-PFHxS	113%	40-130%
	13C8-PFOS	104%	40-130%
	13C8-FOSA	107%	40-130%
	d3-MeFOSA	99%	10-130%
	d5-EtFOSA	100%	10-130%
	d3-MeFOSAA	107%	40-170%
	d5-EtFOSAA	105%	25-135%
	d7-MeFOSE	101%	10-130%
	d9-EtFOSE	101%	10-130%
	13C2-4:2FTS	112%	40-200%
	13C2-6:2FTS	113%	40-200%
	13C2-8:2FTS	113%	40-300%
	13C3-HFPO-DA	104%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-ICCB	2Q39464.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-ICCB	2Q39464.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	102%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	100%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	105%	40-130%
	13C6-PFDA	97%	40-130%
	13C7-PFUnDA	103%	30-130%
	13C2-PFDoDA	91%	10-130%
	13C2-PFTeDA	99%	10-130%
	13C3-PFBS	97%	40-135%
	13C3-PFHxS	101%	40-130%
	13C8-PFOS	103%	40-130%
	13C8-FOSA	109%	40-130%
	d3-MeFOSA	100%	10-130%
	d5-EtFOSA	105%	10-130%
	d3-MeFOSAA	91%	40-170%
	d5-EtFOSAA	93%	25-135%
	d7-MeFOSE	107%	10-130%
	d9-EtFOSE	107%	10-130%
	13C2-4:2FTS	126%	40-200%
	13C2-6:2FTS	116%	40-200%
	13C2-8:2FTS	103%	40-300%
	13C3-HFPO-DA	91%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-ICCB	2Q39480.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-ICCB	2Q39480.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	100%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	99%	40-130%
	13C8-PFOA	98%	40-130%
	13C9-PFNA	107%	40-130%
	13C6-PFDA	100%	40-130%
	13C7-PFUnDA	102%	30-130%
	13C2-PFDoDA	97%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	102%	40-135%
	13C3-PFHxS	98%	40-130%
	13C8-PFOS	96%	40-130%
	13C8-FOSA	100%	40-130%
	d3-MeFOSA	96%	10-130%
	d5-EtFOSA	101%	10-130%
	d3-MeFOSAA	97%	40-170%
	d5-EtFOSAA	105%	25-135%
	d7-MeFOSE	105%	10-130%
	d9-EtFOSE	105%	10-130%
	13C2-4:2FTS	116%	40-200%
	13C2-6:2FTS	120%	40-200%
	13C2-8:2FTS	97%	40-300%
	13C3-HFPO-DA	99%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-ICCB	2Q39491.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q477-ICCB	2Q39491.D	1	12/05/25	AM	n/a	n/a	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	98%	40-130%
	13C5-PFHxA	98%	40-130%
	13C4-PFHpA	96%	40-130%
	13C8-PFOA	99%	40-130%
	13C9-PFNA	100%	40-130%
	13C6-PFDA	104%	40-130%
	13C7-PFUnDA	104%	30-130%
	13C2-PFDoDA	101%	10-130%
	13C2-PFTeDA	103%	10-130%
	13C3-PFBS	103%	40-135%
	13C3-PFHxS	100%	40-130%
	13C8-PFOS	100%	40-130%
	13C8-FOSA	104%	40-130%
	d3-MeFOSA	104%	10-130%
	d5-EtFOSA	109%	10-130%
	d3-MeFOSAA	101%	40-170%
	d5-EtFOSAA	105%	25-135%
	d7-MeFOSE	106%	10-130%
	d9-EtFOSE	108%	10-130%
	13C2-4:2FTS	110%	40-200%
	13C2-6:2FTS	109%	40-200%
	13C2-8:2FTS	93%	40-300%
	13C3-HFPO-DA	102%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q492-ICCB	1Q31138.D	1	12/09/25	AM	n/a	n/a	T1Q492

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-6

CAS No.	Compound	Result	RL	Units	Q
2991-50-6	EtFOSAA	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	99%	40-130%
	13C5-PFHxA	101%	40-130%
	13C4-PFHpA	95%	40-130%
	13C8-PFOA	95%	40-130%
	13C9-PFNA	99%	40-130%
	13C6-PFDA	90%	40-130%
	13C7-PFUnDA	91%	30-130%
	13C2-PFDoDA	89%	10-130%
	13C2-PFTeDA	87%	10-130%
	13C3-PFBS	104%	40-135%
	13C3-PFHxS	94%	40-130%
	13C8-PFOS	95%	40-130%
	13C8-FOSA	106%	40-130%
	d3-MeFOSA	92%	10-130%
	d5-EtFOSA	90%	10-130%
	d3-MeFOSAA	94%	40-170%
	d5-EtFOSAA	88%	25-135%
	d7-MeFOSE	89%	10-130%
	d9-EtFOSE	83%	10-130%
	13C2-4:2FTS	119%	40-200%
	13C2-6:2FTS	104%	40-200%
	13C2-8:2FTS	98%	40-300%
	13C3-HFPO-DA	85%	40-130%

Instrument Blank

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q492-ICCB	1Q31161.D	1	12/09/25	AM	n/a	n/a	T1Q492

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-6

CAS No.	Compound	Result	RL	Units	Q
2991-50-6	EtFOSAA	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	97%	5-130%
	13C5-PFPeA	103%	40-130%
	13C5-PFHxA	98%	40-130%
	13C4-PFHpA	104%	40-130%
	13C8-PFOA	93%	40-130%
	13C9-PFNA	103%	40-130%
	13C6-PFDA	105%	40-130%
	13C7-PFUnDA	104%	30-130%
	13C2-PFDoDA	97%	10-130%
	13C2-PFTeDA	94%	10-130%
	13C3-PFBS	110%	40-135%
	13C3-PFHxS	106%	40-130%
	13C8-PFOS	96%	40-130%
	13C8-FOSA	104%	40-130%
	d3-MeFOSA	89%	10-130%
	d5-EtFOSA	83%	10-130%
	d3-MeFOSAA	90%	40-170%
	d5-EtFOSAA	88%	25-135%
	d7-MeFOSE	90%	10-130%
	d9-EtFOSE	83%	10-130%
	13C2-4:2FTS	108%	40-200%
	13C2-6:2FTS	111%	40-200%
	13C2-8:2FTS	103%	40-300%
	13C3-HFPO-DA	87%	40-130%

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-MB	2Q39467.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-MB	2Q39467.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	102%	5-130%
	13C5-PFPeA	100%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	101%	40-130%
	13C8-PFOA	100%	40-130%
	13C9-PFNA	105%	40-130%
	13C6-PFDA	102%	40-130%
	13C7-PFUnDA	96%	30-130%
	13C2-PFDoDA	86%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	98%	40-135%
	13C3-PFHxS	96%	40-130%
	13C8-PFOS	94%	40-130%
	13C8-FOSA	99%	40-130%
	d3-MeFOSA	76%	10-130%
	d5-EtFOSA	81%	10-130%
	d3-MeFOSAA	82%	40-170%
	d5-EtFOSAA	77%	25-135%
	d7-MeFOSE	94%	10-130%
	d9-EtFOSE	95%	10-130%
	13C2-4:2FTS	134%	40-200%
	13C2-6:2FTS	121%	40-200%
	13C2-8:2FTS	114%	40-300%
	13C3-HFPO-DA	67%	40-130%

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-MB	5Q5084.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Result	RL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	ug/l	
754-91-6	PFOSA	ND	0.0020	ug/l	
31506-32-8	MeFOSA	ND	0.0020	ug/l	
4151-50-2	EtFOSA	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
24448-09-7	MeFOSE	ND	0.020	ug/l	
1691-99-2	EtFOSE	ND	0.020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
377-73-1	PFMPA	ND	0.0040	ug/l	
863090-89-5	PFMBA	ND	0.0040	ug/l	
151772-58-6	NFDHA	ND	0.0040	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

Method Blank Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-MB	5Q5084.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Result	RL	Units	Q
113507-82-7	PFEESA	ND	0.0040	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	82%	5-130%
	13C5-PFPeA	84%	40-130%
	13C5-PFHxA	84%	40-130%
	13C4-PFHpA	82%	40-130%
	13C8-PFOA	80%	40-130%
	13C9-PFNA	78%	40-130%
	13C6-PFDA	81%	40-130%
	13C7-PFUnDA	80%	30-130%
	13C2-PFDoDA	73%	10-130%
	13C2-PFTeDA	77%	10-130%
	13C3-PFBS	84%	40-135%
	13C3-PFHxS	86%	40-130%
	13C8-PFOS	79%	40-130%
	13C8-FOSA	76%	40-130%
	d3-MeFOSA	61%	10-130%
	d5-EtFOSA	61%	10-130%
	d3-MeFOSAA	85%	40-170%
	d5-EtFOSAA	73%	25-135%
	d7-MeFOSE	72%	10-130%
	d9-EtFOSE	77%	10-130%
	13C2-4:2FTS	86%	40-200%
	13C2-6:2FTS	88%	40-200%
	13C2-8:2FTS	87%	40-300%
	13C3-HFPO-DA	83%	40-130%

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69515A-BS1	2M145376.D	1	12/05/25	AC	12/04/25	OP69515A	E2M6568

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE24410-1, JE24410-6, JE24410-11, JE24410-13, JE24410-14, JE24410-15, JE24410-18, JE24410-19, JE24410-23

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	0.8	0.380	48	10-110

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	76%	29-124%
321-60-8	2-Fluorobiphenyl	69%	23-122%
1718-51-0	Terphenyl-d14	80%	22-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-LLBS	2Q39468.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.016	0.0164	103	70-140
2706-90-3	Perfluoropentanoic acid	0.008	0.0077	96	65-135
307-24-4	Perfluorohexanoic acid	0.004	0.0033	83	70-145
375-85-9	Perfluoroheptanoic acid	0.004	0.0037	93	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0035	88	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0039	98	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0036	90	70-140
2058-94-8	Perfluoroundecanoic acid	0.004	0.0042	105	70-145
307-55-1	Perfluorododecanoic acid	0.004	0.0036	90	70-140
72629-94-8	Perfluorotridecanoic acid	0.004	0.0039	98	65-140
376-06-7	Perfluorotetradecanoic acid	0.004	0.0034	85	60-140
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0037	104	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.00376	0.0040	106	65-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0037	101	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.00381	0.0038	100	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0037	100	55-150
68259-12-1	Perfluorononanesulfonic acid	0.00385	0.0047	122	65-145
335-77-3	Perfluorodecanesulfonic acid	0.00386	0.0039	101	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.00388	0.0040	103	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.015	0.0141	94	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.0152	0.0147	97	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.0154	0.0172	112	60-150
754-91-6	PFOSA	0.004	0.0044	110	70-145
31506-32-8	MeFOSA	0.004	0.0040	100	60-150
4151-50-2	EtFOSA	0.004	0.0040	100	65-145
2355-31-9	MeFOSAA	0.004	0.0038	95	50-140
2991-50-6	EtFOSAA	0.004	0.0038	95	70-145
24448-09-7	MeFOSE	0.04	0.0369	92	70-145
1691-99-2	EtFOSE	0.04	0.0362	91	70-135
13252-13-6	HFPO-DA (GenX)	0.016	0.0155	97	70-140
919005-14-4	ADONA	0.0151	0.0145	96	65-145
377-73-1	PFMPA	0.008	0.0077	96	55-140
863090-89-5	PFMBA	0.008	0.0078	98	60-150
151772-58-6	NFDHA	0.008	0.0082	103	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.015	0.0138	92	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0151	0.0134	89	55-160

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-LLBS	2Q39468.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.00712	0.0069	97	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.02	0.0183	92	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.1	0.0925	93	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.1	0.0946	95	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	101%	5-130%
	13C5-PFPeA	102%	40-130%
	13C5-PFHxA	101%	40-130%
	13C4-PFHpA	103%	40-130%
	13C8-PFOA	104%	40-130%
	13C9-PFNA	98%	40-130%
	13C6-PFDA	105%	40-130%
	13C7-PFUnDA	102%	30-130%
	13C2-PFDoDA	97%	10-130%
	13C2-PFTeDA	105%	10-130%
	13C3-PFBS	103%	40-135%
	13C3-PFHxS	107%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	101%	40-130%
	d3-MeFOSA	94%	10-130%
	d5-EtFOSA	97%	10-130%
	d3-MeFOSAA	106%	40-170%
	d5-EtFOSAA	101%	25-135%
	d7-MeFOSE	108%	10-130%
	d9-EtFOSE	112%	10-130%
	13C2-4:2FTS	134%	40-200%
	13C2-6:2FTS	123%	40-200%
	13C2-8:2FTS	108%	40-300%
	13C3-HFPO-DA	99%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-LLBS	5Q5087.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.016	0.0150	94	70-140
2706-90-3	Perfluoropentanoic acid	0.008	0.0076	95	65-135
307-24-4	Perfluorohexanoic acid	0.004	0.0038	95	70-145
375-85-9	Perfluoroheptanoic acid	0.004	0.0036	90	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0038	95	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0038	95	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0039	98	70-140
2058-94-8	Perfluoroundecanoic acid	0.004	0.0038	95	70-145
307-55-1	Perfluorododecanoic acid	0.004	0.0038	95	70-140
72629-94-8	Perfluorotridecanoic acid	0.004	0.0037	93	65-140
376-06-7	Perfluorotetradecanoic acid	0.004	0.0035	88	60-140
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0033	93	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.00376	0.0034	90	65-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0034	93	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.00381	0.0033	87	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0037	100	55-150
68259-12-1	Perfluorononanesulfonic acid	0.00385	0.0033	86	65-145
335-77-3	Perfluorodecanesulfonic acid	0.00386	0.0035	91	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.00388	0.0033	85	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.015	0.0152	101	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.0152	0.0153	101	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.0154	0.0158	103	60-150
754-91-6	PFOSA	0.004	0.0038	95	70-145
31506-32-8	MeFOSA	0.004	0.0039	98	60-150
4151-50-2	EtFOSA	0.004	0.0040	100	65-145
2355-31-9	MeFOSAA	0.004	0.0036	90	50-140
2991-50-6	EtFOSAA	0.004	0.0037	93	70-145
24448-09-7	MeFOSE	0.04	0.0381	95	70-145
1691-99-2	EtFOSE	0.04	0.0360	90	70-135
13252-13-6	HFPO-DA (GenX)	0.016	0.0149	93	70-140
919005-14-4	ADONA	0.0151	0.0145	96	65-145
377-73-1	PFMPA	0.008	0.0076	95	55-140
863090-89-5	PFMBA	0.008	0.0075	94	60-150
151772-58-6	NFDHA	0.008	0.0085	106	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.015	0.0142	95	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0151	0.0136	90	55-160

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-LLBS	5Q5087.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.00712	0.0067	94	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.02	0.0196	98	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.1	0.0920	92	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.1	0.0873	87	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	80%	5-130%
	13C5-PFPeA	80%	40-130%
	13C5-PFHxA	80%	40-130%
	13C4-PFHpA	81%	40-130%
	13C8-PFOA	79%	40-130%
	13C9-PFNA	79%	40-130%
	13C6-PFDA	79%	40-130%
	13C7-PFUnDA	80%	30-130%
	13C2-PFDoDA	73%	10-130%
	13C2-PFTeDA	73%	10-130%
	13C3-PFBS	82%	40-135%
	13C3-PFHxS	83%	40-130%
	13C8-PFOS	76%	40-130%
	13C8-FOSA	75%	40-130%
	d3-MeFOSA	62%	10-130%
	d5-EtFOSA	65%	10-130%
	d3-MeFOSAA	84%	40-170%
	d5-EtFOSAA	73%	25-135%
	d7-MeFOSE	71%	10-130%
	d9-EtFOSE	76%	10-130%
	13C2-4:2FTS	83%	40-200%
	13C2-6:2FTS	82%	40-200%
	13C2-8:2FTS	84%	40-300%
	13C3-HFPO-DA	80%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-BS	2Q39469.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.110	110	70-140
2706-90-3	Perfluoropentanoic acid	0.05	0.0488	98	65-135
307-24-4	Perfluorohexanoic acid	0.025	0.0226	90	70-145
375-85-9	Perfluoroheptanoic acid	0.025	0.0251	100	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0242	97	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0240	96	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0247	99	70-140
2058-94-8	Perfluoroundecanoic acid	0.025	0.0243	97	70-145
307-55-1	Perfluorododecanoic acid	0.025	0.0261	104	70-140
72629-94-8	Perfluorotridecanoic acid	0.025	0.0263	105	65-140
376-06-7	Perfluorotetradecanoic acid	0.025	0.0237	95	60-140
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0239	108	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0241	102	65-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0250	109	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0251	105	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0215	93	55-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0232	96	65-145
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0236	98	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0221	91	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.0938	0.0913	97	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.0858	90	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.0978	102	60-150
754-91-6	PFOSA	0.025	0.0254	102	70-145
31506-32-8	MeFOSA	0.025	0.0260	104	60-150
4151-50-2	EtFOSA	0.025	0.0254	102	65-145
2355-31-9	MeFOSAA	0.025	0.0247	99	50-140
2991-50-6	EtFOSAA	0.025	0.0233	93	70-145
24448-09-7	MeFOSE	0.25	0.253	101	70-145
1691-99-2	EtFOSE	0.25	0.238	95	70-135
13252-13-6	HFPO-DA (GenX)	0.1	0.101	101	70-140
919005-14-4	ADONA	0.0945	0.103	109	65-145
377-73-1	PFMPA	0.05	0.0506	101	55-140
863090-89-5	PFMBA	0.05	0.0486	97	60-150
151772-58-6	NFDHA	0.05	0.0470	94	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0935	0.0980	105	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0945	0.0950	101	55-160

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-BS	2Q39469.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0424	95	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.127	102	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.625	0.626	100	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.610	98	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	101%	5-130%
	13C5-PFPeA	101%	40-130%
	13C5-PFHxA	104%	40-130%
	13C4-PFHpA	98%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	110%	40-130%
	13C7-PFUnDA	107%	30-130%
	13C2-PFDoDA	96%	10-130%
	13C2-PFTeDA	112%	10-130%
	13C3-PFBS	87%	40-135%
	13C3-PFHxS	88%	40-130%
	13C8-PFOS	100%	40-130%
	13C8-FOSA	100%	40-130%
	d3-MeFOSA	83%	10-130%
	d5-EtFOSA	86%	10-130%
	d3-MeFOSAA	99%	40-170%
	d5-EtFOSAA	94%	25-135%
	d7-MeFOSE	104%	10-130%
	d9-EtFOSE	110%	10-130%
	13C2-4:2FTS	102%	40-200%
	13C2-6:2FTS	113%	40-200%
	13C2-8:2FTS	94%	40-300%
	13C3-HFPO-DA	96%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-BS	5Q5088.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.105	105	70-140
2706-90-3	Perfluoropentanoic acid	0.05	0.0531	106	65-135
307-24-4	Perfluorohexanoic acid	0.025	0.0267	107	70-145
375-85-9	Perfluoroheptanoic acid	0.025	0.0261	104	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0265	106	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0274	110	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0271	108	70-140
2058-94-8	Perfluoroundecanoic acid	0.025	0.0271	108	70-145
307-55-1	Perfluorododecanoic acid	0.025	0.0272	109	70-140
72629-94-8	Perfluorotridecanoic acid	0.025	0.0281	112	65-140
376-06-7	Perfluorotetradecanoic acid	0.025	0.0254	102	60-140
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0239	108	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0251	107	65-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0246	108	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0246	103	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0255	110	55-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0253	105	65-145
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0253	105	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0245	101	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.0938	0.104	111	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.107	113	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.106	110	60-150
754-91-6	PFOSA	0.025	0.0258	103	70-145
31506-32-8	MeFOSA	0.025	0.0260	104	60-150
4151-50-2	EtFOSA	0.025	0.0252	101	65-145
2355-31-9	MeFOSAA	0.025	0.0256	102	50-140
2991-50-6	EtFOSAA	0.025	0.0262	105	70-145
24448-09-7	MeFOSE	0.25	0.265	106	70-145
1691-99-2	EtFOSE	0.25	0.249	100	70-135
13252-13-6	HFPO-DA (GenX)	0.1	0.109	109	70-140
919005-14-4	ADONA	0.0945	0.0992	105	65-145
377-73-1	PFMPA	0.05	0.0541	108	55-140
863090-89-5	PFMBA	0.05	0.0541	108	60-150
151772-58-6	NFDHA	0.05	0.0526	105	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0935	0.0969	104	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0945	0.0939	99	55-160

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-BS	5Q5088.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0470	106	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.127	102	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.625	0.642	103	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.584	93	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	80%	5-130%
	13C5-PFPeA	79%	40-130%
	13C5-PFHxA	80%	40-130%
	13C4-PFHpA	79%	40-130%
	13C8-PFOA	80%	40-130%
	13C9-PFNA	75%	40-130%
	13C6-PFDA	76%	40-130%
	13C7-PFUnDA	75%	30-130%
	13C2-PFDoDA	70%	10-130%
	13C2-PFTeDA	74%	10-130%
	13C3-PFBS	83%	40-135%
	13C3-PFHxS	84%	40-130%
	13C8-PFOS	75%	40-130%
	13C8-FOSA	73%	40-130%
	d3-MeFOSA	61%	10-130%
	d5-EtFOSA	63%	10-130%
	d3-MeFOSAA	84%	40-170%
	d5-EtFOSAA	75%	25-135%
	d7-MeFOSE	70%	10-130%
	d9-EtFOSE	76%	10-130%
	13C2-4:2FTS	83%	40-200%
	13C2-6:2FTS	82%	40-200%
	13C2-8:2FTS	85%	40-300%
	13C3-HFPO-DA	79%	40-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69611A-BS12	2M145552.D	1	12/10/25	AC	12/09/25	OP69611A	E2M6575
OP69611A-BSD12	2M145553.D	1	12/10/25	AC	12/09/25	OP69611A	E2M6575

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE24410-3, JE24410-4, JE24410-5, JE24410-7, JE24410-9, JE24410-10, JE24410-12, JE24410-16, JE24410-20, JE24410-21, JE24410-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	0.8	0.390	49	0.389	49	0	10-110/40

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	76%	78%	29-124%
321-60-8	2-Fluorobiphenyl	68%	72%	23-122%
1718-51-0	Terphenyl-d14	71%	87%	22-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69515A-MSA	2M145398.D	1	12/05/25	AC	12/04/25	OP69515A	E2M6568
OP69515A-MSDA	2M145399.D	1	12/06/25	AC	12/04/25	OP69515A	E2M6568
JE24410-1 [a]	2M145397.D	1	12/05/25	AC	12/04/25	OP69515A	E2M6568

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE24410-1, JE24410-6, JE24410-11, JE24410-13, JE24410-14, JE24410-15, JE24410-18, JE24410-19, JE24410-23

CAS No.	Compound	JE24410-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	ND		0.8	0.351	44	0.8	0.311	39	12	10-125/46

CAS No.	Surrogate Recoveries	MS	MSD	JE24410-1	Limits
4165-60-0	Nitrobenzene-d5	73%	66%	78%	29-124%
321-60-8	2-Fluorobiphenyl	67%	62%	70%	23-122%
1718-51-0	Terphenyl-d14	79%	79%	77%	22-130%

(a) Sample reextracted outside the holding time for confirmation.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-MS	5Q5089.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243
OP69620-MSD	5Q5090.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243
JE24410-1A	5Q5092.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	JE24410-1A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
375-22-4	Perfluorobutanoic acid	0.0194		0.106	0.136	110	0.1	0.128	108	6	70-140/30
2706-90-3	Perfluoropentanoic acid	0.0230		0.0532	0.0821	111	0.0502	0.0786	111	4	65-135/30
307-24-4	Perfluorohexanoic acid	0.0213		0.0266	0.0521	116	0.0251	0.0485	108	7	70-145/30
375-85-9	Perfluoroheptanoic acid	0.0153		0.0266	0.0439	108	0.0251	0.0417	105	5	70-150/30
335-67-1	Perfluorooctanoic acid	0.0384		0.0266	0.0693	116	0.0251	0.0658	109	5	70-150/30
375-95-1	Perfluorononanoic acid	0.0360		0.0266	0.0668	116	0.0251	0.0651	116	3	70-150/30
335-76-2	Perfluorodecanoic acid	0.0246		0.0266	0.0576	124	0.0251	0.0533	114	8	70-140/30
2058-94-8	Perfluoroundecanoic acid	0.0059		0.0266	0.0355	111	0.0251	0.0326	106	9	70-145/30
307-55-1	Perfluorododecanoic acid	ND		0.0266	0.0294	111	0.0251	0.0278	111	6	70-140/30
72629-94-8	Perfluorotridecanoic acid	ND		0.0266	0.0276	104	0.0251	0.0277	110	0	65-140/30
376-06-7	Perfluorotetradecanoic acid	ND		0.0266	0.0269	101	0.0251	0.0256	102	5	60-140/30
375-73-5	Perfluorobutanesulfonic acid	0.0625		0.0236	0.0971	147* [a]	0.0223	0.0813	84	18	60-145/30
2706-91-4	Perfluoropentanesulfonic acid	ND		0.025	0.0283	113	0.0236	0.0259	110	9	65-140/30
355-46-4	Perfluorohexanesulfonic acid	0.0042		0.0243	0.0304	108	0.0229	0.0300	112	1	65-145/30
375-92-8	Perfluoroheptanesulfonic acid	ND		0.0253	0.0274	108	0.0239	0.0258	108	6	70-150/30
1763-23-1	Perfluorooctanesulfonic acid	0.0474		0.0247	0.0761	116	0.0233	0.0743	115	2	55-150/30
68259-12-1	Perfluorononanesulfonic acid	ND		0.0256	0.0255	100	0.0241	0.0244	101	4	65-145/30
335-77-3	Perfluorodecanesulfonic acid	ND		0.0257	0.0242	94	0.0242	0.0228	94	6	60-145/30
79780-39-5	Perfluorododecanesulfonic aci	ND		0.0258	0.0210	81	0.0243	0.0214	88	2	50-145/30
757124-72-4	4:2 Fluorotelomer sulfonate	ND		0.0997	0.111	111	0.0941	0.101	107	9	70-145/30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		0.101	0.109	108	0.0954	0.106	111	3	65-155/30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		0.102	0.110	108	0.0964	0.109	113	1	60-150/30
754-91-6	PFOSA	0.0235		0.0266	0.0520	107	0.0251	0.0561	130	8	70-145/30
31506-32-8	MeFOSA	ND		0.0266	0.0265	100	0.0251	0.0264	105	0	60-150/30
4151-50-2	EtFOSA	ND		0.0266	0.0269	101	0.0251	0.0258	103	4	65-145/30
2355-31-9	MeFOSAA	ND		0.0266	0.0270	102	0.0251	0.0267	106	1	50-140/30
2991-50-6	EtFOSAA	ND		0.0266	0.0292	110	0.0251	0.0263	105	10	70-145/30
24448-09-7	MeFOSE	ND		0.266	0.284	107	0.251	0.264	105	7	70-145/30
1691-99-2	EtFOSE	ND		0.266	0.262	99	0.251	0.248	99	5	70-135/30
13252-13-6	HFPO-DA (GenX)	ND		0.106	0.115	108	0.1	0.108	108	6	70-140/30
919005-14-4	ADONA	ND		0.101	0.107	106	0.0949	0.100	105	7	65-145/30
377-73-1	PFMPA	ND		0.0532	0.0582	109	0.0502	0.0543	108	7	55-140/30
863090-89-5	PFMBA	ND		0.0532	0.0578	109	0.0502	0.0545	109	6	60-150/30
151772-58-6	NFDHA	ND		0.0532	0.0529	99	0.0502	0.0489	97	8	50-150/30
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND		0.0995	0.106	107	0.0939	0.0982	105	8	70-155/30
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND		0.101	0.0947	94	0.0949	0.0902	95	5	55-160/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69620-MS	5Q5089.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243
OP69620-MSD	5Q5090.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243
JE24410-1A	5Q5092.D	1	12/09/25	MH	12/09/25	OP69620	T5Q243

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-1A

CAS No.	Compound	JE24410-1A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
113507-82-7	PFEESA	ND		0.0473	0.0491	104	0.0447	0.0469	105	5	70-140/30
356-02-5	3:3 Fluorotelomer carboxylate	ND		0.133	0.145	109	0.126	0.136	108	6	65-130/30
914637-49-3	5:3 Fluorotelomer carboxylate	ND		0.665	0.719	108	0.628	0.682	109	5	70-135/30
812-70-4	7:3 Fluorotelomer carboxylate	ND		0.665	0.693	104	0.628	0.662	105	5	50-145/30

CAS No.	ID Standard Recoveries	MS	MSD	JE24410-1A	Limits
	13C4-PFBA	76%	79%	79%	5-130%
	13C5-PFPeA	74%	76%	76%	40-130%
	13C5-PFHxA	79%	80%	79%	40-130%
	13C4-PFHpA	81%	82%	81%	40-130%
	13C8-PFOA	79%	81%	79%	40-130%
	13C9-PFNA	83%	78%	81%	40-130%
	13C6-PFDA	79%	80%	78%	40-130%
	13C7-PFUnDA	78%	80%	74%	30-130%
	13C2-PFDoDA	68%	71%	67%	10-130%
	13C2-PFTeDA	67%	72%	70%	10-130%
	13C3-PFBS	81%	88%	83%	40-135%
	13C3-PFHxS	86%	85%	87%	40-130%
	13C8-PFOS	80%	81%	80%	40-130%
	13C8-FOSA	79%	80%	88%	40-130%
	d3-MeFOSA	65%	67%	70%	10-130%
	d5-EtFOSA	59%	62%	64%	10-130%
	d3-MeFOSAA	81%	82%	82%	40-170%
	d5-EtFOSAA	71%	73%	72%	25-135%
	d7-MeFOSE	65%	71%	90%	10-130%
	d9-EtFOSE	68%	74%	88%	10-130%
	13C2-4:2FTS	77%	81%	84%	40-200%
	13C2-6:2FTS	82%	82%	79%	40-200%
	13C2-8:2FTS	88%	85%	87%	40-300%
	13C3-HFPO-DA	77%	79%	76%	40-130%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-DUP	2Q39470.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477
JE24410-2	2Q39477.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	JE24410-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
375-22-4	Perfluorobutanoic acid	0.0096		0.0098		2	30
2706-90-3	Perfluoropentanoic acid	0.0072		0.0070		3	30
307-24-4	Perfluorohexanoic acid	0.0054		0.0062		14	30
375-85-9	Perfluoroheptanoic acid	0.0066		0.0070		6	30
335-67-1	Perfluorooctanoic acid	0.0222		0.0242		9	30
375-95-1	Perfluorononanoic acid	0.0175		0.0183		4	30
335-76-2	Perfluorodecanoic acid	0.0038		0.0044		15	30
2058-94-8	Perfluoroundecanoic acid	ND		ND		nc	30
307-55-1	Perfluorododecanoic acid	ND		ND		nc	30
72629-94-8	Perfluorotridecanoic acid	ND		ND		nc	30
376-06-7	Perfluorotetradecanoic acid	ND		ND		nc	30
375-73-5	Perfluorobutanesulfonic acid	0.0025		0.0015	J	50* [a]	30
2706-91-4	Perfluoropentanesulfonic acid	ND		ND		nc	30
355-46-4	Perfluorohexanesulfonic acid	0.0017		0.0023		30	30
375-92-8	Perfluoroheptanesulfonic acid	ND		ND		nc	30
1763-23-1	Perfluorooctanesulfonic acid	0.136		0.139		2	30
68259-12-1	Perfluorononanesulfonic acid	ND		ND		nc	30
335-77-3	Perfluorodecanesulfonic acid	ND		ND		nc	30
79780-39-5	Perfluorododecanesulfonic aci	ND		ND		nc	30
757124-72-4	4:2 Fluorotelomer sulfonate	ND		ND		nc	30
27619-97-2	6:2 Fluorotelomer sulfonate	ND		ND		nc	30
39108-34-4	8:2 Fluorotelomer sulfonate	ND		ND		nc	30
754-91-6	PFOSA	ND		ND		nc	30
31506-32-8	MeFOSA	ND		ND		nc	30
4151-50-2	EtFOSA	ND		ND		nc	30
2355-31-9	MeFOSAA	ND		ND		nc	30
2991-50-6	EtFOSAA	ND		ND		nc	30
24448-09-7	MeFOSE	ND		ND		nc	30
1691-99-2	EtFOSE	ND		ND		nc	30
13252-13-6	HFPO-DA (GenX)	ND		ND		nc	30
919005-14-4	ADONA	ND		ND		nc	30
377-73-1	PFMPA	ND		ND		nc	30
863090-89-5	PFMBA	ND		ND		nc	30
151772-58-6	NFDHA	ND		ND		nc	30
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND		ND		nc	30
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69534-DUP	2Q39470.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477
JE24410-2	2Q39477.D	1	12/05/25	AM	12/05/25	OP69534	T2Q477

The QC reported here applies to the following samples: **Method:** EPA 1633

JE24410-2, JE24410-4, JE24410-6, JE24410-8, JE24410-10, JE24410-16, JE24410-25, JE24410-26, JE24410-27, JE24410-28

CAS No.	Compound	JE24410-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
113507-82-7	PFEESA	ND		ND		nc	30
356-02-5	3:3 Fluorotelomer carboxylate	ND		ND		nc	30
914637-49-3	5:3 Fluorotelomer carboxylate	ND		ND		nc	30
812-70-4	7:3 Fluorotelomer carboxylate	ND		ND		nc	30

CAS No.	ID Standard Recoveries	DUP	JE24410-2	Limits
	13C4-PFBA	100%	101%	5-130%
	13C5-PFPeA	109%	105%	40-130%
	13C5-PFHxA	105%	100%	40-130%
	13C4-PFHpA	109%	105%	40-130%
	13C8-PFOA	106%	101%	40-130%
	13C9-PFNA	104%	104%	40-130%
	13C6-PFDA	100%	112%	40-130%
	13C7-PFUnDA	95%	108%	30-130%
	13C2-PFDoDA	79%	90%	10-130%
	13C2-PFTeDA	91%	99%	10-130%
	13C3-PFBS	98%	96%	40-135%
	13C3-PFHxS	101%	100%	40-130%
	13C8-PFOS	104%	103%	40-130%
	13C8-FOSA	96%	95%	40-130%
	d3-MeFOSA	89%	88%	10-130%
	d5-EtFOSA	93%	90%	10-130%
	d3-MeFOSAA	101%	103%	40-170%
	d5-EtFOSAA	94%	98%	25-135%
	d7-MeFOSE	101%	100%	10-130%
	d9-EtFOSE	107%	108%	10-130%
	13C2-4:2FTS	131%	124%	40-200%
	13C2-6:2FTS	126%	123%	40-200%
	13C2-8:2FTS	108%	109%	40-300%
	13C3-HFPO-DA	100%	95%	40-130%

(a) Outside control limits.

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std: T1Q492-CC487 **Injection Date:** 12/09/25
Lab File ID: 1Q31137.D **Injection Time:** 16:12
Instrument ID: GCMS1Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	65613	3.21	46889	5.78	91714	7.17	32147	7.68	26635	8.15
Check Std [c]	69424	3.18	48234	5.75	93882	7.16	32137	7.67	26489	8.14
Upper Limit [d]	131226	3.58	93778	6.15	183428	7.56	64294	8.07	53270	8.54
Lower Limit [e]	32807	2.78	23445	5.35	45857	6.76	16074	7.27	13318	7.74

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T1Q492-ICCB	60851	3.18	42659	5.75	83433	7.15	28621	7.67	24190	8.14	1
T1Q492-ICCB	60851	3.18	42659	5.75	83433	7.15	28621	7.67	24190	8.14	1
JE24410-6 [f]	54740	3.18	37880	5.75	69470	7.15	24185	7.67	21745	8.14	5
OP69596-MB	76887	3.19	50464	5.75	99645	7.16	34514	7.67	26888	8.14	1
OP69596-LLBS	72992	3.19	47794	5.75	91538	7.16	32106	7.67	26359	8.15	1
OP69596-BS	78424	3.19	51772	5.75	98575	7.16	35837	7.67	28879	8.15	1
ZZZZZZ	66717	3.19	41457	5.75	85040	7.16	29805	7.67	25340	8.15	1
ZZZZZZ	77714	3.19	51628	5.75	98352	7.16	36140	7.67	28843	8.14	1
ZZZZZZ	77064	3.20	51880	5.75	100332	7.16	35888	7.67	29304	8.15	1
ZZZZZZ	59870	3.18	44889	5.75	90732	7.16	32490	7.67	24405	8.13	1
ZZZZZZ	64059	3.20	42194	5.75	80023	7.16	28516	7.67	23307	8.15	1
JE24198-4	59667	3.19	50747	5.75	89647	7.16	33793	7.70	21902	8.09	1
OP69622-MB	80911	3.19	52335	5.76	103793	7.16	35663	7.67	28294	8.15	1
OP69622-LLBS	72070	3.19	46830	5.75	89730	7.16	29838	7.67	25739	8.15	1
OP69622-BS	72988	3.19	47378	5.75	94000	7.16	32131	7.67	26103	8.14	1
OP69622-MS	68613	3.20	46312	5.75	85270	7.16	29325	7.67	25716	8.14	1
OP69622-MSD	68709	3.20	47329	5.75	87725	7.16	31538	7.67	27308	8.14	1
JE24497-2A	68585	3.20	44876	5.75	86804	7.16	32048	7.67	24501	8.14	1
ZZZZZZ	68212	3.19	46269	5.75	87178	7.16	30438	7.67	24914	8.14	1
T1Q492-ECC487	68062	3.18	46235	5.75	90698	7.16	32154	7.67	24212	8.14	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q487-ICC487 1Q30953.D 12/02/25 14:28. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.
(f) Dilution required (EIS recovery standard failure).

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T1Q492-CC487	**Injection Date:**	12/09/25
Lab File ID:	1Q31137.D	**Injection Time:**	16:12
Instrument ID:	GCMS1Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	12875	7.29	18009	8.32
Check Std [c]	12622	7.26	17619	8.30
Upper Limit [d]	25750	7.66	36018	8.70
Lower Limit [e]	6438	6.86	9005	7.90

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T1Q492-ICCB	11002	7.26	15237	8.29	1
T1Q492-ICCB	11002	7.26	15237	8.29	1
JE24410-6 [f]	10545	7.25	14375	8.29	5
OP69596-MB	12184	7.26	18079	8.30	1
OP69596-LLBS	13041	7.26	18145	8.30	1
OP69596-BS	13517	7.26	18526	8.30	1
ZZZZZZ	10957	7.28	15328	8.30	1
ZZZZZZ	13652	7.26	17761	8.30	1
ZZZZZZ	14259	7.26	17576	8.30	1
ZZZZZZ	11478	7.26	14308	8.28	1
ZZZZZZ	10925	7.26	15314	8.30	1
JE24198-4	11018	7.26	14268	8.23	1
OP69622-MB	13513	7.26	18425	8.30	1
OP69622-LLBS	12362	7.26	16670	8.30	1
OP69622-BS	12197	7.26	17784	8.29	1
OP69622-MS	11690	7.26	17504	8.29	1
OP69622-MSD	12874	7.26	16774	8.29	1
JE24497-2A	11655	7.26	15182	8.30	1
ZZZZZZ	12675	7.26	16884	8.30	1
T1Q492-ECC487	12253	7.26	15620	8.29	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q487-ICC487 1Q30953.D 12/02/25 14:28. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.
(f) Dilution required (EIS recovery standard failure).

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	E2M6568-CC6547	**Injection Date:**	12/05/25
Lab File ID:	2M145370.D	**Injection Time:**	12:52
Instrument ID:	GCMS2M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	29644	5.97	40519	7.07	70476	8.97	79686	11.63
Upper Limit [a]	59288	6.47	81038	7.57	140952	9.47	159372	12.13
Lower Limit [b]	14822	5.47	20260	6.57	35238	8.47	39843	11.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP69514A-MB1	30712	5.97	41490	7.07	74926	8.97	79669	11.63
OP69515A-MB1	25797	5.97	34836	7.07	61925	8.97	65872	11.63
ZZZZZZ	30750	5.97	41877	7.07	75392	8.97	81612	11.63
OP69514A-BS12	31139	5.97	43228	7.07	75716	8.97	76588	11.63
OP69515A-BS1	30714	5.97	42666	7.07	73467	8.97	76505	11.63
ZZZZZZ	32554	5.97	43811	7.07	77318	8.97	89033	11.63
ZZZZZZ	30865	5.97	41987	7.07	73042	8.97	81296	11.63
ZZZZZZ	30939	5.97	41942	7.07	73528	8.97	77667	11.63
ZZZZZZ	32065	5.97	43031	7.07	75841	8.97	77745	11.64
ZZZZZZ	30783	5.97	41289	7.07	72464	8.97	76951	11.64
ZZZZZZ	31232	5.97	41447	7.07	72346	8.97	77495	11.64
JE24404-2	30022	5.97	40216	7.07	69435	8.97	82788	11.64
OP69514A-MSA	31255	5.97	42311	7.07	71060	8.97	81710	11.64
OP69514A-MSDA	30615	5.97	41433	7.07	70684	8.97	82857	11.64
JE24410-1 [c]	28590	5.97	38388	7.07	67480	8.97	76788	11.64
OP69515A-MSA	29539	5.97	40725	7.07	69473	8.97	80158	11.64
OP69515A-MSDA	30092	5.97	40865	7.07	70665	8.97	81282	11.64
JE24410-6 [c]	28896	5.97	39141	7.07	70446	8.97	80111	11.64

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample reextracted outside the holding time for confirmation.

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	E2M6569-CC6547	**Injection Date:**	12/06/25
Lab File ID:	2M145403.D	**Injection Time:**	01:40
Instrument ID:	GCMS2M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	28040	5.97	37838	7.07	64103	8.97	77046	11.64
Upper Limit [a]	56080	6.47	75676	7.57	128206	9.47	154092	12.14
Lower Limit [b]	14020	5.47	18919	6.57	32052	8.47	38523	11.14

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP69530A-MB1	31609	5.97	42203	7.07	75382	8.97	87158	11.64
OP69530A-BS12	34615	5.97	47472	7.07	79868	8.97	91428	11.64
ZZZZZZ	33098	5.98	44263	7.07	78398	8.97	91149	11.64
ZZZZZZ	31090	5.97	42652	7.07	77632	8.98	88991	11.64
ZZZZZZ	32687	5.97	43900	7.07	76448	8.97	87419	11.64
ZZZZZZ	32684	5.98	43862	7.07	77684	8.97	90075	11.64
ZZZZZZ	31867	5.98	42970	7.07	75801	8.97	88580	11.64
ZZZZZZ	33076	5.97	44970	7.07	82684	8.97	87506	11.64
ZZZZZZ	33927	5.98	45786	7.07	78330	8.97	92913	11.64
ZZZZZZ	32579	5.98	44506	7.07	77339	8.97	102731	11.64
ZZZZZZ	37916	5.98	50589	7.07	79865	8.97	89329	11.64
ZZZZZZ	31928	5.98	49606	7.07	73822	8.97	86545	11.64
ZZZZZZ	38428	5.98	51396	7.07	75447	8.97	90280	11.64
JE24410-14 [c]	26536	5.98	35311	7.07	71710	8.97	86892	11.64
JE24410-15 [c]	29062	5.98	39228	7.07	78391	8.97	94149	11.64
JE24410-18 [c]	36516	5.98	49457	7.07	73350	8.97	88146	11.64
JE24410-19 [c]	35252	5.98	43371	7.07	88399	8.97	89908	11.64
JE24410-23 [c]	37167	5.98	43287	7.07	75324	8.97	99315	11.64
JE24422-9	33606	5.97	51661	7.07	91037	8.97	89996	11.64
OP69530A-MSA	38963	5.97	44451	7.07	76861	8.97	91655	11.64
OP69530A-MSDA	33310	5.98	54470	7.07	77909	8.97	108064	11.64

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample reextracted outside the holding time for confirmation.

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	E2M6575-CC6547	**Injection Date:**	12/10/25
Lab File ID:	2M145549.D	**Injection Time:**	11:30
Instrument ID:	GCMS2M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	35156	5.98	48818	7.07	80665	8.97	74308	11.64
Upper Limit [a]	70312	6.48	97636	7.57	161330	9.47	148616	12.14
Lower Limit [b]	17578	5.48	24409	6.57	40333	8.47	37154	11.14

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP69611A-MB1	35230	5.98	51546	7.07	82461	8.97	89011	11.64
OP69611A-BS12	37539	5.98	53420	7.07	89655	8.97	89322	11.64
OP69611A-BSD12	39404	5.98	59231	7.07	91688	8.97	86388	11.64
JE24410-3	39559	5.97	55164	7.07	86758	8.97	99072	11.64
JE24410-4	40104	5.98	53872	7.07	91508	8.97	98815	11.64
JE24410-5	38840	5.98	56473	7.07	82036	8.98	95865	11.64
JE24410-7	40528	5.98	57844	7.07	88422	8.97	92708	11.64
JE24410-9	43368	5.98	58664	7.07	88479	8.98	102753	11.64
JE24410-10	40391	5.98	58729	7.07	83971	8.98	95817	11.64
JE24410-12	41583	5.98	55941	7.07	87279	8.98	95130	11.64
JE24410-16	34841	5.98	48032	7.07	72600	8.98	80272	11.64
JE24410-20	53020	5.98	71252	7.07	101979	8.97	78933	11.64
JE24410-21	52628	5.98	66387	7.07	95712	8.98	94526	11.64
JE24410-24	39583	5.98	57863	7.07	96128	8.97	99875	11.64
ZZZZZZ	41983	5.98	57046	7.07	93382	8.98	101338	11.64
ZZZZZZ	61717	5.98	62897	7.08	106881	8.99	102016	11.64
ZZZZZZ	43438	5.98	60060	7.07	88687	8.98	105689	11.64
ZZZZZZ	55472	5.98	25569	7.06	64292	8.74	107835	11.65
ZZZZZZ	41010	5.98	56489	7.07	96437	8.98	102773	11.64
ZZZZZZ	46313	5.98	63302	7.07	96255	8.97	107055	11.64
ZZZZZZ	42551	5.98	62506	7.07	91997	8.97	110803	11.64
ZZZZZZ	46517	5.98	56959	7.07	98389	8.98	101079	11.64
ZZZZZZ	46858	5.98	63875	7.07	95988	8.98	114204	11.64
ZZZZZZ	45529	5.98	60816	7.07	89414	8.98	102385	11.64
ZZZZZZ	40288	5.98	60944	7.07	81734	8.98	96892	11.64
ZZZZZZ	43275	5.98	59889	7.07	92045	8.98	104569	11.64
ZZZZZZ	45480	5.98	60296	7.07	88511	8.98	111436	11.65
ZZZZZZ	32758	5.98	43297	7.07	67741	8.98	77025	11.64
ZZZZZZ	31038	5.98	39867	7.07	67657	8.98	79430	11.64
ZZZZZZ	33613	5.98	45953	7.07	67393	8.98	84288	11.64

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	E2M6575-CC6547	**Injection Date:**	12/10/25
Lab File ID:	2M145549.D	**Injection Time:**	11:30
Instrument ID:	GCMS2M	**Method:**	SW846 8270E BY SIM

Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	E2M6578-CC6547	**Injection Date:**	12/13/25
Lab File ID:	2M145653.D	**Injection Time:**	10:47
Instrument ID:	GCMS2M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	47301	5.95	62401	7.05	105421	8.94	79207	11.61
Upper Limit [a]	94602	6.45	124802	7.55	210842	9.44	158414	12.11
Lower Limit [b]	23651	5.45	31201	6.55	52711	8.44	39604	11.11

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP69754C-MB1	57378	5.95	79013	7.05	135944	8.95	101822	11.61
ZZZZZZ	50905	5.95	67157	7.05	112557	8.94	83524	11.61
OP69732A-MB1	50017	5.95	66774	7.05	110033	8.94	81732	11.61
OP69732A-BS12	56638	5.95	78401	7.05	128142	8.95	91181	11.61
OP69754C-BS12	53361	5.95	73345	7.05	119262	8.94	89257	11.61
OP69754C-BSD12	49922	5.95	67570	7.05	115538	8.95	87301	11.61
ZZZZZZ	54567	5.95	74140	7.05	123975	8.95	91296	11.61
ZZZZZZ	54180	5.95	71363	7.05	122560	8.95	90845	11.61
ZZZZZZ	55110	5.95	73135	7.05	124301	8.95	90170	11.61
JE24410-1 [c]	61178	5.95	81118	7.05	135876	8.95	93679	11.61
JE24410-6 [c]	56157	5.95	71126	7.05	120362	8.95	87794	11.61
JE24410-11 [c]	53109	5.95	71357	7.04	118801	8.95	82700	11.61
JE24410-13 [c]	52196	5.95	70163	7.04	115553	8.95	80058	11.61
JE24410-14 [c]	55191	5.95	74002	7.04	122510	8.95	83047	11.61
JE24410-15 [c]	57643	5.95	78383	7.04	126698	8.95	85535	11.61
JE24410-18 [c]	55120	5.95	73971	7.04	119630	8.94	88372	11.61
JE24410-19 [c]	58492	5.95	78306	7.04	130558	8.95	90012	11.61
JE24410-23 [c]	54351	5.95	72269	7.04	118643	8.95	82439	11.61

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample extracted outside the holding time. Confirmation run.

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q477-CC473	**Injection Date:**	12/05/25
Lab File ID:	2Q39462.D	**Injection Time:**	11:10
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	51752	3.25	38535	5.88	69787	7.28	30018	7.81	23140	8.30
Check Std [c]	54407	3.23	40165	5.86	71781	7.26	29230	7.79	24492	8.29
Upper Limit [d]	103504	3.63	77070	6.26	139574	7.66	60036	8.19	46280	8.69
Lower Limit [e]	25876	2.83	19268	5.46	34894	6.86	15009	7.39	11570	7.89

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q477-ICCB	60553	3.24	43049	5.86	79866	7.26	33814	7.79	27997	8.29	1
OP69534-MB	54369	3.24	46014	5.84	80965	7.27	34209	7.79	27917	8.30	1
JE24410-27	59677	3.23	42964	5.84	78713	7.26	33457	7.79	25651	8.29	1
JE24410-28	57278	3.23	40565	5.84	74280	7.26	30239	7.79	25052	8.29	1
OP69534-LLBS	59423	3.24	42422	5.84	77163	7.26	34013	7.79	25476	8.29	1
OP69534-BS	54567	3.23	40194	5.84	72429	7.26	30034	7.79	22652	8.29	1
OP69534-DUP	55789	3.23	38826	5.84	70861	7.26	32036	7.79	25935	8.29	1
ZZZZZZ	55440	3.24	43231	5.84	77234	7.26	34443	7.79	26961	8.29	1
ZZZZZZ	58504	3.24	41055	5.84	81925	7.26	31989	7.79	26915	8.29	1
ZZZZZZ	49799	3.23	38965	5.83	77084	7.26	32884	7.78	25363	8.26	1
ZZZZZZ	58215	3.24	42618	5.86	78880	7.26	32845	7.79	27992	8.29	1
ZZZZZZ	48344	3.23	36449	5.84	66183	7.26	29437	7.79	22471	8.29	1
ZZZZZZ	49560	3.23	37857	5.84	73205	7.26	30724	7.79	23998	8.29	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q473-ICC473 2Q39312.D 12/01/25 16:25. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q477-CC473	**Injection Date:**	12/05/25
Lab File ID:	2Q39462.D	**Injection Time:**	11:10
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	7186	7.41	10849	8.48
Check Std [c]	7281	7.39	11418	8.46
Upper Limit [d]	14372	7.79	21698	8.86
Lower Limit [e]	3593	6.99	5425	8.06

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q477-ICCB	7608	7.39	11930	8.46	1
OP69534-MB	7485	7.40	12117	8.48	1
JE24410-27	7376	7.39	11116	8.46	1
JE24410-28	7619	7.39	11280	8.46	1
OP69534-LLBS	7297	7.39	11381	8.46	1
OP69534-BS	7853	7.39	11325	8.46	1
OP69534-DUP	7355	7.39	11212	8.46	1
ZZZZZZ	7172	7.39	12111	8.46	1
ZZZZZZ	7413	7.39	11386	8.46	1
ZZZZZZ	6896	7.39	10518	8.44	1
ZZZZZZ	8182	7.39	12893	8.46	1
ZZZZZZ	7091	7.39	10464	8.46	1
ZZZZZZ	7727	7.39	11680	8.46	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q473-ICC473 2Q39312.D 12/01/25 16:25. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std: T2Q477-CC473 **Injection Date:** 12/05/25
Lab File ID: 2Q39479.D **Injection Time:** 18:06
Instrument ID: GCMS2Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	51752	3.25	38535	5.88	69787	7.28	30018	7.81	23140	8.30
Check Std [c]	54512	3.23	39483	5.84	70134	7.26	30069	7.79	24169	8.29
Upper Limit [d]	103504	3.63	77070	6.24	139574	7.66	60036	8.19	46280	8.69
Lower Limit [e]	25876	2.83	19268	5.44	34894	6.86	15009	7.39	11570	7.89

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q477-ICCB	56739	3.23	40494	5.86	74442	7.26	31088	7.79	24683	8.29	1
JE24410-2	55165	3.23	39828	5.84	72768	7.26	30644	7.79	23947	8.29	1
JE24410-4	43200	3.23	37196	5.84	65510	7.26	30572	7.79	23669	8.29	1
JE24410-6	54273	3.23	39010	5.84	73818	7.26	32424	7.78	25823	8.28	1
JE24410-8	53477	3.23	37521	5.84	69975	7.26	29145	7.79	23582	8.29	1
JE24410-10	48426	3.23	35166	5.84	65749	7.26	26877	7.79	21493	8.29	1
JE24410-16	51854	3.23	39477	5.84	71106	7.26	30447	7.79	24512	8.29	1
JE24410-25	51226	3.23	38287	5.84	69809	7.26	27937	7.79	25360	8.29	1
JE24410-26	55809	3.23	39939	5.84	76350	7.26	31034	7.79	22513	8.29	1
ZZZZZZ	50886	3.23	35471	5.86	65274	7.26	25871	7.79	23194	8.29	1
T2Q477-ECC473	54060	3.23	38180	5.86	70592	7.26	30898	7.79	24561	8.29	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q473-ICC473 2Q39312.D 12/01/25 16:25. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q477-CC473	**Injection Date:**	12/05/25
Lab File ID:	2Q39479.D	**Injection Time:**	18:06
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	7186	7.41	10849	8.48
Check Std [c]	7267	7.39	11049	8.46
Upper Limit [d]	14372	7.79	21698	8.86
Lower Limit [e]	3593	6.99	5425	8.06

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q477-ICCB	7579	7.39	11899	8.46	1
JE24410-2	7396	7.39	11277	8.46	1
JE24410-4	6653	7.39	11179	8.46	1
JE24410-6	7260	7.39	11329	8.45	1
JE24410-8	6830	7.39	10855	8.46	1
JE24410-10	6689	7.39	10537	8.46	1
JE24410-16	7585	7.39	11581	8.46	1
JE24410-25	7039	7.39	10731	8.46	1
JE24410-26	7991	7.39	11520	8.46	1
ZZZZZZ	6605	7.39	10209	8.46	1
T2Q477-ECC473	7021	7.39	10886	8.46	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q473-ICC473 2Q39312.D 12/01/25 16:25. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T5Q243-CC243	**Injection Date:**	12/09/25
Lab File ID:	5Q5080.D	**Injection Time:**	15:42
Instrument ID:	GCMS5Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	382934	2.95	263782	5.50	461074	6.99	177642	7.49	167492	7.95
Check Std [c]	390854	2.95	265484	5.49	467345	6.97	181815	7.49	163496	7.95
Upper Limit [d]	765868	3.35	527564	5.89	922148	7.37	355284	7.89	334984	8.35
Lower Limit [e]	191467	2.55	131891	5.09	230537	6.57	88821	7.09	83746	7.55

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T5Q243-ICCB	395803	2.98	261483	5.50	459145	6.97	181321	7.48	165733	7.95	1
OP69620-MB	400892	2.96	263125	5.49	462441	6.97	182471	7.48	165252	7.95	1
ZZZZZZ	423484	2.95	276868	5.49	494203	6.97	193267	7.48	177661	7.95	1
ZZZZZZ	400492	2.96	264693	5.49	462962	6.97	181217	7.48	171943	7.95	1
OP69620-LLBS	447962	2.96	295056	5.49	521285	6.97	198906	7.48	190882	7.95	1
OP69620-BS	433315	2.96	292918	5.49	510174	6.97	200513	7.48	192741	7.95	1
OP69620-MS	381645	2.95	275309	5.49	468663	6.97	183443	7.49	169217	7.95	1
OP69620-MSD	369292	2.94	266918	5.49	459711	6.97	185667	7.48	163447	7.95	1
ZZZZZZ	422142	2.95	264966	5.43	417668	6.94	165833	7.44	144585	7.87	1
JE24410-1A	391101	2.95	283191	5.48	480707	6.97	192741	7.48	184930	7.95	1
ZZZZZZ	339854	2.95	262804	5.48	454394	6.97	178327	7.48	168543	7.95	1
ZZZZZZ	398120	2.95	280390	5.49	493108	6.97	196927	7.48	179419	7.95	1
ZZZZZZ	367268	2.95	267303	5.49	480703	6.97	187278	7.48	173769	7.95	1
ZZZZZZ	383573	2.95	283006	5.49	499652	6.97	194913	7.48	182048	7.95	1
ZZZZZZ	409332	2.95	277488	5.49	489327	6.97	192009	7.48	178811	7.95	1
ZZZZZZ	368180	2.95	279360	5.49	483303	6.97	189289	7.48	171089	7.95	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T5Q243-ICC243 5Q5073.D 12/09/25 13:54. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T5Q243-CC243	**Injection Date:**	12/09/25
Lab File ID:	5Q5080.D	**Injection Time:**	15:42
Instrument ID:	GCMS5Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	58897	7.06	101891	8.08
Check Std [c]	60397	7.06	105450	8.08
Upper Limit [d]	117794	7.46	203782	8.48
Lower Limit [e]	29449	6.66	50946	7.68

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T5Q243-ICCB	58547	7.06	103967	8.08	1
OP69620-MB	58891	7.06	104917	8.08	1
ZZZZZZ	62105	7.06	108830	8.07	1
ZZZZZZ	59388	7.06	103978	8.08	1
OP69620-LLBS	67250	7.06	116803	8.08	1
OP69620-BS	65445	7.06	113812	8.08	1
OP69620-MS	60074	7.06	104388	8.08	1
OP69620-MSD	57551	7.06	99944	8.07	1
ZZZZZZ	53109	7.01	93466	8.01	1
JE24410-1A	61287	7.06	104478	8.07	1
ZZZZZZ	60502	7.05	101269	8.07	1
ZZZZZZ	62196	7.06	109860	8.07	1
ZZZZZZ	60651	7.06	105132	8.07	1
ZZZZZZ	63808	7.06	110343	8.08	1
ZZZZZZ	62098	7.06	108730	8.07	1
ZZZZZZ	59078	7.06	107298	8.07	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T5Q243-ICC243 5Q5073.D 12/09/25 13:54. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Internal Standard Area Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	ECS508-CC491	**Injection Date:**	12/05/25
Lab File ID:	CS10118.D	**Injection Time:**	10:42
Instrument ID:	GCMSCS	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	36564	7.19	47274	8.27	74579	10.60	41765	14.61
Upper Limit [a]	73128	7.69	94548	8.77	149158	11.10	83530	15.11
Lower Limit [b]	18282	6.69	23637	7.77	37290	10.10	20883	14.11

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP69486A-MB1	31085	7.19	39723	8.27	60769	10.60	33976	14.61
ZZZZZZ	34503	7.19	43852	8.27	65997	10.60	36448	14.61
ZZZZZZ	37165	7.19	47830	8.27	73921	10.60	39755	14.61
OP69486A-BS12	34347	7.19	44226	8.27	65393	10.61	37508	14.61
OP69486A-BSD12	35456	7.19	45876	8.27	69591	10.60	38182	14.61
ZZZZZZ	33097	7.19	41624	8.27	59399	10.61	34745	14.62
ZZZZZZ	33450	7.19	41429	8.27	59596	10.61	35394	14.62
ZZZZZZ	32840	7.19	40992	8.27	58622	10.61	34609	14.62
ZZZZZZ	32686	7.19	40431	8.27	58370	10.61	34106	14.62
ZZZZZZ	34066	7.19	42961	8.27	59384	10.61	35013	14.62
ZZZZZZ	36589	7.19	45457	8.27	59065	10.61	34588	14.62
ZZZZZZ	31347	7.19	38929	8.27	55192	10.61	32603	14.62
ZZZZZZ	30483	7.19	34921	8.27	49325	10.61	29756	14.62
ZZZZZZ	32667	7.19	40231	8.27	57558	10.61	34738	14.62
ZZZZZZ	33383	7.19	41063	8.27	59315	10.61	35339	14.62
ZZZZZZ	30505	7.19	38140	8.27	54612	10.61	32195	14.62
ZZZZZZ	35955	7.19	44728	8.27	64837	10.61	35956	14.62
ZZZZZZ	36023	7.19	44373	8.27	62976	10.61	36061	14.62
ZZZZZZ	38779	7.19	48172	8.27	69086	10.61	40069	14.62
ZZZZZZ	38038	7.19	46626	8.27	66058	10.61	39448	14.62
JE24410-11 [c]	39105	7.19	48152	8.27	69811	10.61	40305	14.62
JE24410-13 [c]	35105	7.19	43376	8.27	63935	10.61	36151	14.62
ZZZZZZ	35840	7.19	41346	8.27	59304	10.61	37610	14.62

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Sample reextracted outside the holding time for confirmation.

Isotope Dilution Standard Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JE24410-2	2Q39477.D	101	105	100	105	101	104	112	108
JE24410-4	2Q39478.D	91	107	102	105	104	98	106	102
JE24410-6	1Q31139.D	38	100	99	103	102	100	104	102
JE24410-6	2Q39481.D	37	103	102	104	97	103	104	109
JE24410-8	2Q39482.D	86	107	104	101	100	106	114	99
JE24410-10	2Q39483.D	98	107	108	103	99	109	106	106
JE24410-16	2Q39484.D	72	99	97	99	99	102	96	94
JE24410-1A	5Q5092.D	79	76	79	81	79	81	78	74
JE24410-25	2Q39485.D	96	101	100	99	100	105	98	90
JE24410-26	2Q39486.D	103	103	104	107	99	104	118	117
JE24410-27	2Q39487.D	100	101	100	100	104	100	105	100
JE24410-28	2Q39488.D	101	105	102	104	103	104	105	105
OP69534-BS	2Q39469.D	101	101	104	98	102	101	110	107
OP69534-DUP	2Q39470.D	100	109	105	109	106	104	100	95
OP69534-LLBS	2Q39468.D	101	102	101	103	104	98	105	102
OP69534-MB	2Q39467.D	102	100	102	101	100	105	102	96
OP69620-BS	5Q5088.D	80	79	80	79	80	75	76	75
OP69620-LLBS	5Q5087.D	80	80	80	81	79	79	79	80
OP69620-MB	5Q5084.D	82	84	84	82	80	78	81	80
OP69620-MS	5Q5089.D	76	74	79	81	79	83	79	78
OP69620-MSD	5Q5090.D	79	76	80	82	81	78	80	80
T1Q487-IBLK	1Q30962.D	101	98	96	99	102	93	103	102
T1Q492-IBLK	1Q31121.D	98	103	99	97	97	96	97	94
T1Q492-ICCB	1Q31138.D	99	99	101	95	95	99	90	91
T1Q492-ICCB	1Q31161.D	97	103	98	104	93	103	105	104
T2Q473-IBLK	2Q39317.D	99	105	107	106	96	99	102	109
T2Q477-IBLK	2Q39461.D	99	99	96	100	101	101	104	103
T2Q477-ICCB	2Q39464.D	99	102	99	100	102	105	97	103
T2Q477-ICCB	2Q39480.D	98	100	102	99	98	107	100	102
T2Q477-ICCB	2Q39491.D	99	98	98	96	99	100	104	104
T5Q243-IBLK	5Q5078.D	104	104	102	106	106	99	106	105

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	5-130%
S2 = 13C5-PFPeA	40-130%
S3 = 13C5-PFHxA	40-130%
S4 = 13C4-PFHpA	40-130%
S5 = 13C8-PFOA	40-130%

Isotope Dilution Standard Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Isotope Dilution Standards	Recovery Limits
S6 = 13C9-PFNA	40-130%
S7 = 13C6-PFDA	40-130%
S8 = 13C7-PFUnDA	30-130%

Isotope Dilution Standard Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JE24410-2	2Q39477.D	90	99	96	100	103	95	88	90
JE24410-4	2Q39478.D	97	93	104	100	91	102	90	90
JE24410-6	1Q31139.D	87	99	97	107	80	100	85	85
JE24410-6	2Q39481.D	93	86	100	102	99	106	91	92
JE24410-8	2Q39482.D	91	99	103	106	110	95	92	97
JE24410-10	2Q39483.D	90	97	99	101	102	93	85	86
JE24410-16	2Q39484.D	83	86	94	91	97	92	86	86
JE24410-1A	5Q5092.D	67	70	83	87	80	88	70	64
JE24410-25	2Q39485.D	80	71	104	105	100	98	87	85
JE24410-26	2Q39486.D	101	108	93	95	99	97	91	89
JE24410-27	2Q39487.D	93	97	96	96	108	106	98	102
JE24410-28	2Q39488.D	88	103	98	92	94	101	87	88
OP69534-BS	2Q39469.D	96	112	87	88	100	100	83	86
OP69534-DUP	2Q39470.D	79	91	98	101	104	96	89	93
OP69534-LLBS	2Q39468.D	97	105	103	107	101	101	94	97
OP69534-MB	2Q39467.D	86	100	98	96	94	99	76	81
OP69620-BS	5Q5088.D	70	74	83	84	75	73	61	63
OP69620-LLBS	5Q5087.D	73	73	82	83	76	75	62	65
OP69620-MB	5Q5084.D	73	77	84	86	79	76	61	61
OP69620-MS	5Q5089.D	68	67	81	86	80	79	65	59
OP69620-MSD	5Q5090.D	71	72	88	85	81	80	67	62
T1Q487-IBLK	1Q30962.D	96	101	101	108	100	101	96	95
T1Q492-IBLK	1Q31121.D	92	86	96	95	107	110	96	91
T1Q492-ICCB	1Q31138.D	89	87	104	94	95	106	92	90
T1Q492-ICCB	1Q31161.D	97	94	110	106	96	104	89	83
T2Q473-IBLK	2Q39317.D	100	100	107	99	98	102	99	104
T2Q477-IBLK	2Q39461.D	96	96	93	89	97	101	99	104
T2Q477-ICCB	2Q39464.D	91	99	97	101	103	109	100	105
T2Q477-ICCB	2Q39480.D	97	100	102	98	96	100	96	101
T2Q477-ICCB	2Q39491.D	101	103	103	100	100	104	104	109
T5Q243-IBLK	5Q5078.D	100	99	114	113	104	107	99	100

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	10-130%
S10 = 13C2-PFTeDA	10-130%
S11 = 13C3-PFBS	40-135%
S12 = 13C3-PFHxS	40-130%
S13 = 13C8-PFOS	40-130%

Isotope Dilution Standard Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Isotope Dilution Standards	Recovery Limits
S14 = 13C8-FOSA	40-130%
S15 = d3-MeFOSA	10-130%
S16 = d5-EtFOSA	10-130%

Isotope Dilution Standard Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18	S19	S20	S21	S22	S23	S24
JE24410-2	2Q39477.D	103	98	100	108	124	123	109	95
JE24410-4	2Q39478.D	108	106	98	100	180	190	173	80
JE24410-6	1Q31139.D	92	97	82	82	110	115	109	80
JE24410-6	2Q39481.D	138	140* [a]	102	107	165	145	188	89
JE24410-8	2Q39482.D	103	100	104	114	150	124	117	101
JE24410-10	2Q39483.D	103	94	95	103	137	143	116	103
JE24410-16	2Q39484.D	101	90	91	96	120	123	115	92
JE24410-1A	5Q5092.D	82	72	90	88	84	79	87	76
JE24410-25	2Q39485.D	101	95	98	102	134	143	123	92
JE24410-26	2Q39486.D	108	99	105	113	105	115	107	101
JE24410-27	2Q39487.D	104	96	112	113	134	122	113	88
JE24410-28	2Q39488.D	102	97	102	98	113	110	110	91
OP69534-BS	2Q39469.D	99	94	104	110	102	113	94	96
OP69534-DUP	2Q39470.D	101	94	101	107	131	126	108	100
OP69534-LLBS	2Q39468.D	106	101	108	112	134	123	108	99
OP69534-MB	2Q39467.D	82	77	94	95	134	121	114	67
OP69620-BS	5Q5088.D	84	75	70	76	83	82	85	79
OP69620-LLBS	5Q5087.D	84	73	71	76	83	82	84	80
OP69620-MB	5Q5084.D	85	73	72	77	86	88	87	83
OP69620-MS	5Q5089.D	81	71	65	68	77	82	88	77
OP69620-MSD	5Q5090.D	82	73	71	74	81	82	85	79
T1Q487-IBLK	1Q30962.D	91	95	98	93	111	116	109	102
T1Q492-IBLK	1Q31121.D	89	92	92	90	106	96	86	82
T1Q492-ICCB	1Q31138.D	94	88	89	83	119	104	98	85
T1Q492-ICCB	1Q31161.D	90	88	90	83	108	111	103	87
T2Q473-IBLK	2Q39317.D	104	110	104	104	111	119	102	103
T2Q477-IBLK	2Q39461.D	101	104	102	105	103	108	98	96
T2Q477-ICCB	2Q39464.D	91	93	107	107	126	116	103	91
T2Q477-ICCB	2Q39480.D	97	105	105	105	116	120	97	99
T2Q477-ICCB	2Q39491.D	101	105	106	108	110	109	93	102
T5Q243-IBLK	5Q5078.D	107	105	101	101	112	113	113	104

Isotope Dilution Standards	Recovery Limits
S17 = d3-MeFOSAA	40-170%
S18 = d5-EtFOSAA	25-135%
S19 = d7-MeFOSE	10-130%
S20 = d9-EtFOSE	10-130%
S21 = 13C2-4:2FTS	40-200%

Isotope Dilution Standard Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Isotope Dilution Standards	Recovery Limits
S22 = 13C2-6:2FTS	40-200%
S23 = 13C2-8:2FTS	40-300%
S24 = 13C3-HFPO-DA	40-130%

(a) Outside control limits.

Surrogate Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JE24410-1	2M145664.D	73	69	77
JE24410-1	2M145397.D	78	70	77
JE24410-3	2M145554.D	82	73	75
JE24410-4	2M145555.D	74	69	63
JE24410-5	2M145556.D	61	54	67
JE24410-6	2M145665.D	83	81	87
JE24410-6	2M145400.D	66	65	76
JE24410-7	2M145557.D	78	70	69
JE24410-9	2M145558.D	77	73	79
JE24410-10	2M145559.D	80	70	84
JE24410-11	2M145666.D	76	68	77
JE24410-11	CS10146.D	69	72	85
JE24410-12	2M145560.D	84	75	86
JE24410-13	2M145667.D	85	77	83
JE24410-13	CS10147.D	59	63	82
JE24410-14	2M145668.D	85	77	84
JE24410-14	2M145417.D	64	62	71
JE24410-15	2M145669.D	74	66	70
JE24410-15	2M145418.D	58	53	67
JE24410-16	2M145561.D	92	85	96
JE24410-18	2M145670.D	87	76	77
JE24410-18	2M145419.D	46	47	53
JE24410-19	2M145671.D	67	64	70
JE24410-19	2M145420.D	51	55	70
JE24410-20	2M145562.D	83	70	78
JE24410-21	2M145563.D	80	75	84
JE24410-23	2M145672.D	73	67	73
JE24410-23	2M145421.D	60	73	72
JE24410-24	2M145564.D	90	71	82
OP69515A-BS1	2M145376.D	76	69	80
OP69515A-MB1	2M145373.D	92	83	102
OP69515A-MSA	2M145398.D	73	67	79
OP69515A-MSDA	2M145399.D	66	62	79
OP69611A-BS12	2M145552.D	76	68	71
OP69611A-BSD12	2M145553.D	78	72	87
OP69611A-MB1	2M145551.D	63	56	69

Surrogate Compounds	Recovery Limits

Surrogate Recovery Summary

Job Number: JE24410
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE26414

Sampling Date: 01/06/26



Report to:

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ATTN: Cullen Bryant

Total number of pages in report: **60**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Kelly Ramos 732-329-0200
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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE26414

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JE26414-1	01/06/26	12:05	CB	01/06/26	AQ	Influent	INFLUENT
JE26414-1A	01/06/26	12:05	CB	01/06/26	AQ	Influent	INFLUENT
JE26414-2	01/06/26	12:15	CB	01/06/26	AQ	Effluent	EFFLUENT
JE26414-2A	01/06/26	12:15	CB	01/06/26	AQ	Effluent	EFFLUENT
JE26414-3	01/06/26	12:15	CB	01/06/26	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech **Job No:** JE26414

Site: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA **Report Date** 1/15/2026 5:52:29 PM

On 01/06/2026, 2 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE26414 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V2U2884

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP70323

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP70293A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP59688

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE26401-2SDL were used as the QC samples for the metals analysis.
- The blank spike (BS) recovery(s) of Selenium are outside control limits.
- MP59688-B1 for Selenium: Spike blank indicates possible high bias, but all associated samples < RL.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP59685

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP59678

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP66898

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 180.1

Matrix: AQ **Batch ID:** GN78030

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP66865

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP66842

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 420.4/LACHAT

Matrix: AQ **Batch ID:** GP66838

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2340 C-11/21

Matrix: AQ **Batch ID:** GN78171

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 C-15/20

Matrix: AQ **Batch ID:** GN78007

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 D-15/20

Matrix:	AQ	Batch ID:	GN78006

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JE26414-2 for Solids, Total Suspended: Volume was reduced from 1 liter due to limited volume.
- JE26414-1 for Solids, Total Suspended: Volume was reduced from 1 liter due to limited volume.

General Chemistry By Method SM4500NH3 H-11/21LAC

Matrix:	AQ	Batch ID:	GP66999

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SW846 6010/7196A M

Matrix:	AQ	Batch ID:	R221394

- The data for SW846 6010/7196A M meets quality control requirements.
- JE26414-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix:	AQ	Batch ID:	R221395

- The data for SW846 6010/7196A M meets quality control requirements.
- JE26414-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

General Chemistry By Method SW846 7196A

Matrix:	AQ	Batch ID:	GN78005

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE26414
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 01/06/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE26414-1	**INFLUENT**					
1,1-Dichloroethane		3.5	1.0	0.42	ug/l	EPA 624.1
1,1-Dichloroethene		17.6	1.0	0.45	ug/l	EPA 624.1
cis-1,2-Dichloroethene		1.2	1.0	0.51	ug/l	EPA 624.1
Tetrachloroethene		167	1.0	0.41	ug/l	EPA 624.1
1,1,1-Trichloroethane		64.9	1.0	0.43	ug/l	EPA 624.1
Trichloroethene		7.3	1.0	0.43	ug/l	EPA 624.1
1,4-Dioxane		0.232 J	0.30	0.20	ug/l	SW846 8270E BY SIM
Calcium		255000	10000	250	ug/l	EPA 200.7
Chromium		0.78 J	4.0	0.33	ug/l	EPA 200.8
Magnesium		79900	5000	200	ug/l	EPA 200.7
Nickel		0.65 J	4.0	0.26	ug/l	EPA 200.8
Chloride		733	8.0	3.3	mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		969	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		1750	10	6.0	mg/l	SM2540 C-15/20
Turbidity		0.26 J	0.30	0.034	NTU	EPA 180.1
JE26414-1A	**INFLUENT**					
Perfluoroheptanoic acid		0.0366	0.0022	0.00055	ug/l	EPA 1633
Perfluorooctanoic acid		0.0817	0.0022	0.00082	ug/l	EPA 1633
Perfluorononanoic acid		0.0752	0.0022	0.00044	ug/l	EPA 1633
Perfluorodecanoic acid		0.0294	0.0022	0.00068	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0034	0.0022	0.0012	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0300	0.0022	0.00047	ug/l	EPA 1633
JE26414-2	**EFFLUENT**					
1,4-Dioxane		0.266 J	0.30	0.20	ug/l	SW846 8270E BY SIM
Calcium		263000	10000	250	ug/l	EPA 200.7
Chromium		0.67 J	4.0	0.33	ug/l	EPA 200.8
Iron		43.5 J	100	30	ug/l	EPA 200.7
Magnesium		80600	5000	200	ug/l	EPA 200.7
Nickel		0.66 J	4.0	0.26	ug/l	EPA 200.8
Chloride		720	8.0	3.3	mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		966	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		1620	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended [a]		1.3 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.21 J	0.30	0.034	NTU	EPA 180.1
JE26414-2A	**EFFLUENT**					
Perfluoroheptanoic acid		0.0213	0.0022	0.00055	ug/l	EPA 1633
Perfluorooctanoic acid		0.0427	0.0022	0.00083	ug/l	EPA 1633

Summary of Hits

Job Number: JE26414
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 01/06/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perfluorononanoic acid		0.0332	0.0022	0.00044	ug/l	EPA 1633
Perfluorodecanoic acid		0.0112	0.0022	0.00068	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0014 J	0.0022	0.0012	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0139	0.0022	0.00047	ug/l	EPA 1633

JE26414-3 **TRIP BLANK**

No hits reported in this sample.

(a) Volume was reduced from 1 liter due to limited volume.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE26414-1
Matrix: AQ - Influent
Method: EPA 624.1
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 01/06/26
Date Received: 01/06/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U84451.D	1	01/08/26 19:26	NW	n/a	n/a	V2U2884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	3.5	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	17.6	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	167	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	64.9	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	7.3	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%		80-128%
2037-26-5	Toluene-D8 (SUR)	105%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	105%		79-117%
1868-53-7	Dibromofluoromethane (S)	100%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE26414-1	**Date Sampled:**	01/06/26
Matrix:	AQ - Influent	**Date Received:**	01/06/26
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M146171.D	1	01/08/26 18:08	RS	01/07/26 09:45	OP70293A	E2M6598
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.232	0.30	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		29-124%
321-60-8	2-Fluorobiphenyl	45%		23-122%
1718-51-0	Terphenyl-d14	80%		22-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE26414-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 01/06/26
Date Received: 01/06/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Arsenic	0.25 U	1.0	0.25	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Cadmium	0.099 U	0.50	0.099	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Calcium	255000	10000	250	ug/l	2	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Chromium	0.78 J	4.0	0.33	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Copper	0.65 U	4.0	0.65	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Iron	30 U	100	30	ug/l	1	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Lead	0.14 U	0.50	0.14	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Magnesium	79900	5000	200	ug/l	1	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	01/07/26	01/07/26	MK	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	0.65 J	4.0	0.26	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Selenium	5.5 U	10	5.5	ug/l	1	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Silver	0.10 U	2.0	0.10	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Zinc	3.7 U	10	3.7	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]

(1) Instrument QC Batch: MA60066
(2) Instrument QC Batch: MA60078
(3) Instrument QC Batch: MA60079
(4) Prep QC Batch: MP59678
(5) Prep QC Batch: MP59685
(6) Prep QC Batch: MP59688

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE26414-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 01/06/26
Date Received: 01/06/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	733	8.0	3.3	mg/l	4	01/08/26 15:45	MS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0026 U	0.010	0.0026	mg/l	1	01/07/26 11:10	RI	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	01/08/26 22:45	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	01/07/26 17:50	JD	EPA 335.4/LACHAT
Hardness, Total as CaCO3	969	5.0	3.9	mg/l	1	01/09/26 20:56	MS	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	01/13/26 00:22	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	01/14/26 01:25	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	1750	10	6.0	mg/l	1	01/07/26 11:00	SD	SM2540 C-15/20
Solids, Total Suspended [b]	0.90 U	4.0	0.90	mg/l	1	01/07/26 16:00	SD	SM2540 D-15/20
Turbidity	0.26 J	0.30	0.034	NTU	1	01/07/26 16:34	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)
(b) Volume was reduced from 1 liter due to limited volume.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE26414-1A	**Date Sampled:**	01/06/26
Matrix:	AQ - Influent	**Date Received:**	01/06/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1Q31750.D	1	01/08/26 19:37	VL	01/08/26 11:00	OP70323	T1Q511
Run #2							

	Initial Volume	Final Volume
Run #1	455 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0366	0.0022	0.00055	ug/l	
335-67-1	Perfluorooctanoic acid	0.0817	0.0022	0.00082	ug/l	
375-95-1	Perfluorononanoic acid	0.0752	0.0022	0.00044	ug/l	
335-76-2	Perfluorodecanoic acid	0.0294	0.0022	0.00068	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0034	0.0022	0.0012	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0300	0.0022	0.00047	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	114%		40-130%
	13C8-PFOA	109%		40-130%
	13C9-PFNA	102%		40-130%
	13C6-PFDA	106%		40-130%
	13C3-PFHxS	119%		40-130%
	13C8-PFOS	93%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE26414-2	**Date Sampled:**	01/06/26
Matrix:	AQ - Effluent	**Date Received:**	01/06/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U84441.D	1	01/08/26 15:16	NW	n/a	n/a	V2U2884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%		80-128%
2037-26-5	Toluene-D8 (SUR)	103%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	105%		79-117%
1868-53-7	Dibromofluoromethane (S)	101%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE26414-2
Matrix: AQ - Effluent
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 01/06/26
Date Received: 01/06/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M146172.D	1	01/08/26 18:30	RS	01/07/26 09:45	OP70293A	E2M6598
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.266	0.30	0.20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		29-124%
321-60-8	2-Fluorobiphenyl	50%		23-122%
1718-51-0	Terphenyl-d14	62%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE26414-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 01/06/26
Date Received: 01/06/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Arsenic	0.25 U	1.0	0.25	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Cadmium	0.099 U	0.50	0.099	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Calcium	263000	10000	250	ug/l	2	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Chromium	0.67 J	4.0	0.33	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Copper	0.65 U	4.0	0.65	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Iron	43.5 J	100	30	ug/l	1	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Lead	0.14 U	0.50	0.14	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Magnesium	80600	5000	200	ug/l	1	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	01/07/26	01/07/26	MK	EPA 245.1 [1]	EPA 245.1 [4]
Nickel	0.66 J	4.0	0.26	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Selenium	5.5 U	10	5.5	ug/l	1	01/07/26	01/08/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Silver	0.10 U	2.0	0.10	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Zinc	3.7 U	10	3.7	ug/l	1	01/07/26	01/08/26	NV	EPA 200.8 [3]	EPA 200.8 [5]

(1) Instrument QC Batch: MA60066
(2) Instrument QC Batch: MA60078
(3) Instrument QC Batch: MA60079
(4) Prep QC Batch: MP59678
(5) Prep QC Batch: MP59685
(6) Prep QC Batch: MP59688

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE26414-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 01/06/26
Date Received: 01/06/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	720	8.0	3.3	mg/l	4	01/08/26 15:58	MS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0026 U	0.010	0.0026	mg/l	1	01/07/26 11:10	RI	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	01/08/26 22:49	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	01/07/26 17:51	JD	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbons	0.86 U	5.0	0.86	mg/l	1	01/08/26 17:30	SS	EPA 1664A
Hardness, Total as CaCO3	966	5.0	3.9	mg/l	1	01/09/26 20:56	MS	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	01/13/26 00:23	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	01/14/26 01:26	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	1620	10	6.0	mg/l	1	01/07/26 11:00	SD	SM2540 C-15/20
Solids, Total Suspended [b]	1.3 J	4.0	0.90	mg/l	1	01/07/26 16:00	SD	SM2540 D-15/20
Turbidity	0.21 J	0.30	0.034	NTU	1	01/07/26 16:34	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)
(b) Volume was reduced from 1 liter due to limited volume.

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE26414-2A	**Date Sampled:**	01/06/26
Matrix:	AQ - Effluent	**Date Received:**	01/06/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1Q31751.D	1	01/08/26 19:52	VL	01/08/26 11:00	OP70323	T1Q511
Run #2							

	Initial Volume	Final Volume
Run #1	453 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0213	0.0022	0.00055	ug/l	
335-67-1	Perfluorooctanoic acid	0.0427	0.0022	0.00083	ug/l	
375-95-1	Perfluorononanoic acid	0.0332	0.0022	0.00044	ug/l	
335-76-2	Perfluorodecanoic acid	0.0112	0.0022	0.00068	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0014	0.0022	0.0012	ug/l	J
1763-23-1	Perfluorooctanesulfonic acid	0.0139	0.0022	0.00047	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	101%		40-130%
	13C8-PFOA	111%		40-130%
	13C9-PFNA	104%		40-130%
	13C6-PFDA	109%		40-130%
	13C3-PFHxS	113%		40-130%
	13C8-PFOS	102%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE26414-3	**Date Sampled:**	01/06/26
Matrix:	AQ - Trip Blank Water	**Date Received:**	01/06/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U84439.D	1	01/08/26 14:25	NW	n/a	n/a	V2U2884
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	111%		80-128%
2037-26-5	Toluene-D8 (SUR)	103%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	106%		79-117%
1868-53-7	Dibromofluoromethane (S)	99%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certification Exceptions

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		**SW846 6010/7196A M**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

CHAIN OF CUSTODY

JE26414

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

FED EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #:

Client / Reporting Information

Company Name: Tetra Tech Inc.
Street Address: 100 Nickerson Road
City: Marlborough, State: MA, Zip: 01752
Project Contact: Cullen Bryant / cullen.bryant@tetratech.com, E-mail
Phone #: 857.272.3511
Sampler(s) Name(s): Phone #

Project Information

Project Name: HVEC - Burlington 3VDG
Street: 3 Van DeGraff Dr
City: Burlington, State: MA
Project #: 117-367085-25001
Client Purchase Order #:
Project Manager: Cullen Bryant

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH+ASC	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	AMN	CHL, XCR, TURB, TDS, CR3R	PN	TSS	V624SL1	CN	AGMS,ASMS,CA,CDMS,CRMS,CUMS,FE,HG,HRD,MG,NIMS,PBMS,SBMS,SE,ZNMS	PHC1664	LCID1633MA6
1	INFLUENT	-9	1-6-26	12:05	CB	G	N	WW	12	6	1	1	2	7				1	2	1	2	4	1	1		3
2	EFFLUENT	-8	1-6-26	12:15	CB	G	N	WW	20	9	1	1	2	7				1	2	1	2	4	1	1	2	3
	~~MID~~ CB					G	N	WW	3					1												
3	TRIP BLANK					G		DI	2	2												2				

pH Check (Lab Use Only)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

LAB USE ONLY

Initial Assessment
Label Verification

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [x] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

0.2 x 2.00 m / NP
8270

SGS Courier

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 Cullen Bryant	1-6-26 12:30	1	2	1-6-26	2
3	1-6-26	3	4		4
5		5	Custody Seal #	Intact / Not Intact / Absent	Therm ID: On Ice / See Sample Receipt Summary / Cooler Temp. °C

3.3°C + 0.0

SGS Sample Receipt Summary

Job Number: JE26414 **Client:** TETRA TECH INC. **Project:** LIPARI LANDFILL,743 MULLICA HILL ROA

Date / Time Received: 1/6/2026 8:22:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.3);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE26414
Project Location:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE26414-1,JE26414-1A,JE26414-2,JE26414-2A,JE26414-3

Matrices: Groundwater/Surface Water (x) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC (X) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

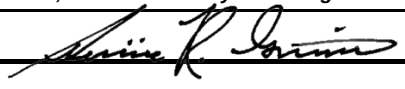
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑	Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑	Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑	Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐	Yes	☐ No
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐	Yes	☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑	Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑	Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.			
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑	Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐	Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **15-Jan-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE26414

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE26414-1	Collected: 06-JAN-26 12:05 By: CB		Received: 06-JAN-26 By: AR			
INFLUENT						
JE26414-1	SM2540 C-15/20	07-JAN-26 11:00	SD			TDS
JE26414-1	SW846 7196A	07-JAN-26 11:10	RI			XCR
JE26414-1	EPA 245.1	07-JAN-26 13:03	MK	07-JAN-26	MK	HG
JE26414-1	SM2540 D-15/20	07-JAN-26 16:00	SD			TSS
JE26414-1	EPA 180.1	07-JAN-26 16:34	DB			TURB
JE26414-1	EPA 335.4/LACHAT	07-JAN-26 17:50	JD	07-JAN-26	KG	CN
JE26414-1	EPA 300/SW846 9056A	08-JAN-26 15:45	MS	07-JAN-26	MS	CHL
JE26414-1	SW846 8270E BY SIM	08-JAN-26 18:08	RS	07-JAN-26	AM	BLV8270SIM14DIOX
JE26414-1	EPA 624.1	08-JAN-26 19:26	NW			V624SL1
JE26414-1	EPA 200.7	08-JAN-26 19:27	LM	07-JAN-26	MG	FE,MG,SE
JE26414-1	EPA 200.7	08-JAN-26 19:32	LM	07-JAN-26	MG	CA
JE26414-1	EPA 200.8	08-JAN-26 22:45	NV	07-JAN-26	HS	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE26414-1	SW846 6010/7196A M	08-JAN-26 22:45	NV			CR3R
JE26414-1	SM2340 C-11/21	09-JAN-26 20:56	MS			HRD
JE26414-1	SM4500NH3 H-11/21LAC	12-JAN-26 00:22	JD	12-JAN-26	JD	AMN
JE26414-1	EPA 420.4/LACHAT	14-JAN-26 01:25	JD	07-JAN-26	KG	PN
JE26414-2	Collected: 06-JAN-26 12:15 By: CB		Received: 06-JAN-26 By: AR			
EFFLUENT						
JE26414-2	SM2540 C-15/20	07-JAN-26 11:00	SD			TDS
JE26414-2	SW846 7196A	07-JAN-26 11:10	RI			XCR
JE26414-2	EPA 245.1	07-JAN-26 13:04	MK	07-JAN-26	MK	HG
JE26414-2	SM2540 D-15/20	07-JAN-26 16:00	SD			TSS
JE26414-2	EPA 180.1	07-JAN-26 16:34	DB			TURB
JE26414-2	EPA 335.4/LACHAT	07-JAN-26 17:51	JD	07-JAN-26	KG	CN
JE26414-2	EPA 624.1	08-JAN-26 15:16	NW			V624SL1
JE26414-2	EPA 300/SW846 9056A	08-JAN-26 15:58	MS	07-JAN-26	MS	CHL
JE26414-2	EPA 1664A	08-JAN-26 17:30	SS	08-JAN-26	SS	PHC1664
JE26414-2	SW846 8270E BY SIM	08-JAN-26 18:30	RS	07-JAN-26	AM	BLV8270SIM14DIOX
JE26414-2	EPA 200.7	08-JAN-26 19:37	LM	07-JAN-26	MG	FE,MG,SE
JE26414-2	EPA 200.7	08-JAN-26 19:42	LM	07-JAN-26	MG	CA
JE26414-2	EPA 200.8	08-JAN-26 22:49	NV	07-JAN-26	HS	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE26414-2	SW846 6010/7196A M	08-JAN-26 22:49	NV			CR3R
JE26414-2	SM2340 C-11/21	09-JAN-26 20:56	MS			HRD

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE26414

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE26414-2	SM4500NH3 H-11/21LAC	16-JAN-26 00:23	JD	12-JAN-26	JD	AMN
JE26414-2	EPA 420.4/LACHAT	14-JAN-26 01:26	JD	07-JAN-26	KG	PN
JE26414-3	Collected: 06-JAN-26 12:15 By: CB			Received: 06-JAN-26 By: AR		
TRIP BLANK						
JE26414-3	EPA 624.1	08-JAN-26 14:25	NW			V624SL1
JE26414-1A	Collected: 06-JAN-26 12:05 By: CB			Received: 06-JAN-26 By: AR		
INFLUENT						
JE26414-1A	EPA 1633	08-JAN-26 19:37	VL	08-JAN-26	BE	LCID1633MA6
JE26414-2A	Collected: 06-JAN-26 12:15 By: CB			Received: 06-JAN-26 By: AR		
EFFLUENT						
JE26414-2A	EPA 1633	08-JAN-26 19:52	VL	08-JAN-26	BE	LCID1633MA6

QC Evaluation: MA MCP Limits

Job Number: JE26414
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 01/06/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP70293A	SW846 8270E BY SIM						
OP70293A-BS12	123-91-1	1,4-Dioxane	BSP	REC	48	%	40-140
OP70293A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	76	%	30-130
OP70293A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	59	%	30-130
OP70293A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	75	%	30-130
OP70293A-BSD12	123-91-1	1,4-Dioxane	BSD	REC	45	%	40-140
OP70293A-BSD12	123-91-1	1,4-Dioxane	BSD	RPD	7	%	30
OP70293A-BSD12	4165-60-0	Nitrobenzene-d5	BSD	SURR	60	%	30-130
OP70293A-BSD12	321-60-8	2-Fluorobiphenyl	BSD	SURR	47	%	30-130
OP70293A-BSD12	1718-51-0	Terphenyl-d14	BSD	SURR	65	%	30-130
OP70293A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	65	%	30-130
OP70293A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	47	%	30-130
OP70293A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	75	%	30-130
JE26414-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	67	%	30-130
JE26414-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	45	%	30-130
JE26414-1	1718-51-0	Terphenyl-d14	SAMP	SURR	80	%	30-130
JE26414-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	66	%	30-130
JE26414-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	50	%	30-130
JE26414-2	1718-51-0	Terphenyl-d14	SAMP	SURR	62	%	30-130

* Sample used for QC is not from job JE26414

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2U2884-MB	2U84435.D	1	01/08/26	NW	n/a	n/a	V2U2884

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE26414-1, JE26414-2, JE26414-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109%	80-128%
2037-26-5	Toluene-D8 (SUR)	106%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%	79-117%
1868-53-7	Dibromofluoromethane (S)	99%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2U2884-BS	2U84433A.D	1	01/08/26	NW	n/a	n/a	V2U2884
V2U2884-BSD	2U84434.D	1	01/08/26	NW	n/a	n/a	V2U2884

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE26414-1, JE26414-2, JE26414-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	106	133	116	145	9	26-198/39
71-43-2	Benzene	20	21.2	106	21.2	106	0	65-135/11
56-23-5	Carbon tetrachloride	20	17.8	89	17.8	89	0	70-130/13
95-50-1	1,2-Dichlorobenzene	20	20.2	101	21.0	105	4	65-135/12
541-73-1	1,3-Dichlorobenzene	20	20.2	101	21.0	105	4	70-130/12
106-46-7	1,4-Dichlorobenzene	20	19.4	97	20.3	102	5	65-135/12
75-34-3	1,1-Dichloroethane	20	24.8	124	25.2	126	2	70-130/12
107-06-2	1,2-Dichloroethane	20	23.0	115	23.2	116	1	70-130/11
75-35-4	1,1-Dichloroethene	20	22.8	114	24.2	121	6	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	20.7	104	21.0	105	1	72-116/12
100-41-4	Ethylbenzene	20	20.3	102	20.7	104	2	60-140/11
75-09-2	Methylene chloride	20	20.9	105	22.3	112	6	60-140/14
127-18-4	Tetrachloroethene	20	19.0	95	20.0	100	5	70-130/18
108-88-3	Toluene	20	21.2	106	21.4	107	1	70-130/13
71-55-6	1,1,1-Trichloroethane	20	20.3	102	20.6	103	1	70-130/12
79-00-5	1,1,2-Trichloroethane	20	20.8	104	21.7	109	4	70-130/14
79-01-6	Trichloroethene	20	19.8	99	19.5	98	2	65-135/13
75-01-4	Vinyl chloride	20	29.2	146	29.3	147	0	50-150/14
	m,p-Xylene	40	41.7	104	42.7	107	2	78-115/11
95-47-6	o-Xylene	20	20.9	105	22.0	110	5	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	110%	109%	80-128%
2037-26-5	Toluene-D8 (SUR)	101%	105%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	103%	103%	79-117%
1868-53-7	Dibromofluoromethane (S)	100%	98%	84-121%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V2U2884-CC2828	**Injection Date:**	01/08/26
Lab File ID:	2U84433.D	**Injection Time:**	11:42
Instrument ID:	GCMS2U	**Method:**	EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	430286	2.06	352077	2.99	558463	3.28	260486	6.80	509048	5.07
Upper Limit [a]	860572	2.56	704154	3.49	1116926	3.78	520972	7.30	1018096	5.57
Lower Limit [b]	215143	1.56	176039	2.49	279232	2.78	130243	6.30	254524	4.57

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2U2884-BS	430286	2.06	352077	2.99	558463	3.28	260486	6.80	509048	5.07
V2U2884-BSD	452228	2.06	354288	2.99	563750	3.28	254396	6.80	484953	5.07
V2U2884-MB	430943	2.05	362998	2.99	573846	3.28	269347	6.80	502564	5.07
ZZZZZZ	451037	2.06	376583	2.99	600936	3.28	269775	6.80	526651	5.07
ZZZZZZ	463093	2.05	376842	2.98	598027	3.28	270834	6.80	526708	5.07
ZZZZZZ	461373	2.06	374834	2.99	597634	3.28	267732	6.80	523465	5.07
JE26414-3	457455	2.05	375547	2.98	592660	3.28	267229	6.80	526281	5.07
JE26414-2	457303	2.06	368415	2.99	591939	3.28	266634	6.80	518284	5.07
ZZZZZZ	458254	2.05	367271	2.98	584520	3.28	262417	6.80	513456	5.07
ZZZZZZ	474976	2.06	369963	2.99	586911	3.28	264744	6.80	514091	5.07
JE26437-1	433639	2.05	362850	2.99	576517	3.28	258647	6.80	507713	5.07
JE26437-1	439710	2.05	359564	2.99	573759	3.28	255124	6.80	499042	5.07
JE26437-1MS	449366	2.05	366585	2.98	583681	3.28	262929	6.79	503391	5.07
JE26437-1MSD	451865	2.05	371174	2.99	592497	3.28	264239	6.80	512427	5.07
JE26414-1	455010	2.05	369643	2.98	585907	3.28	261794	6.80	508477	5.07
ZZZZZZ	437359	2.06	366390	2.99	587225	3.28	265843	6.80	511327	5.07

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE26414-1	2U84451.D	110	105	105	100
JE26414-2	2U84441.D	110	103	105	101
JE26414-3	2U84439.D	111	103	106	99
V2U2884-BS	2U84433A.D	110	101	103	100
V2U2884-BSD	2U84434.D	109	105	103	98
V2U2884-MB	2U84435.D	109	106	101	99

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection/Internal Standard Area Summaries
- Isotope Dilution Standard/Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70293A-MB1	2M146154.D	1	01/08/26	RS	01/07/26	OP70293A	E2M6598

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE26414-1, JE26414-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	15-110%
4165-62-2	Phenol-d5	30%	12-110%
118-79-6	2,4,6-Tribromophenol	84%	32-143%
4165-60-0	Nitrobenzene-d5	65%	29-124%
321-60-8	2-Fluorobiphenyl	47%	23-122%
1718-51-0	Terphenyl-d14	75%	22-130%

Instrument Blank

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q509-IBLK	1Q31702.D	1	01/06/26	VL	n/a	n/a	T1Q509

The QC reported here applies to the following samples: **Method:** EPA 1633

JE26414-1A, JE26414-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	97%	40-130%
	13C5-PFHxA	103%	40-130%
	13C4-PFHpA	97%	40-130%
	13C8-PFOA	99%	40-130%
	13C9-PFNA	93%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	101%	30-130%
	13C2-PFDoDA	97%	10-130%
	13C2-PFTeDA	91%	10-130%
	13C3-PFBS	94%	40-135%
	13C3-PFHxS	92%	40-130%
	13C8-PFOS	103%	40-130%
	13C8-FOSA	99%	40-130%
	d3-MeFOSA	100%	10-130%
	d5-EtFOSA	108%	10-130%
	d3-MeFOSAA	112%	40-170%
	d5-EtFOSAA	112%	25-135%
	d7-MeFOSE	103%	10-130%
	d9-EtFOSE	104%	10-130%
	13C2-4:2FTS	112%	40-200%
	13C2-6:2FTS	108%	40-200%
	13C2-8:2FTS	102%	40-300%
	13C3-HFPO-DA	98%	40-130%

Instrument Blank

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q511-IBLK	1Q31734.D	1	01/08/26	VL	n/a	n/a	T1Q511

The QC reported here applies to the following samples: **Method:** EPA 1633

JE26414-1A, JE26414-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	104%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	101%	40-130%
	13C8-PFOA	98%	40-130%
	13C9-PFNA	99%	40-130%
	13C6-PFDA	97%	40-130%
	13C7-PFUnDA	99%	30-130%
	13C2-PFDoDA	96%	10-130%
	13C2-PFTeDA	92%	10-130%
	13C3-PFBS	98%	40-135%
	13C3-PFHxS	106%	40-130%
	13C8-PFOS	95%	40-130%
	13C8-FOSA	112%	40-130%
	d3-MeFOSA	102%	10-130%
	d5-EtFOSA	102%	10-130%
	d3-MeFOSAA	101%	40-170%
	d5-EtFOSAA	113%	25-135%
	d7-MeFOSE	110%	10-130%
	d9-EtFOSE	106%	10-130%
	13C2-4:2FTS	129%	40-200%
	13C2-6:2FTS	120%	40-200%
	13C2-8:2FTS	119%	40-300%
	13C3-HFPO-DA	87%	40-130%

Instrument Blank

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q511-ICCB	1Q31737.D	1	01/08/26	VL	n/a	n/a	T1Q511

The QC reported here applies to the following samples: **Method:** EPA 1633

JE26414-1A, JE26414-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	106%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	99%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	108%	40-130%
	13C7-PFUnDA	110%	30-130%
	13C2-PFDoDA	103%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	94%	40-135%
	13C3-PFHxS	104%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	123%	40-130%
	d3-MeFOSA	98%	10-130%
	d5-EtFOSA	97%	10-130%
	d3-MeFOSAA	94%	40-170%
	d5-EtFOSAA	99%	25-135%
	d7-MeFOSE	106%	10-130%
	d9-EtFOSE	97%	10-130%
	13C2-4:2FTS	173%	40-200%
	13C2-6:2FTS	135%	40-200%
	13C2-8:2FTS	122%	40-300%
	13C3-HFPO-DA	59%	40-130%

Method Blank Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70323-MB	1Q31738.D	1	01/08/26	VL	01/08/26	OP70323	T1Q511

The QC reported here applies to the following samples: **Method:** EPA 1633

JE26414-1A, JE26414-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	110%	5-130%
	13C5-PFPeA	116%	40-130%
	13C5-PFHxA	108%	40-130%
	13C4-PFHpA	101%	40-130%
	13C8-PFOA	111%	40-130%
	13C9-PFNA	108%	40-130%
	13C6-PFDA	113%	40-130%
	13C7-PFUnDA	106%	30-130%
	13C2-PFDoDA	103%	10-130%
	13C2-PFTeDA	98%	10-130%
	13C3-PFBS	111%	40-135%
	13C3-PFHxS	105%	40-130%
	13C8-PFOS	102%	40-130%
	13C8-FOSA	115%	40-130%
	d3-MeFOSA	92%	10-130%
	d5-EtFOSA	87%	10-130%
	d3-MeFOSAA	112%	40-170%
	d5-EtFOSAA	105%	25-135%
	d7-MeFOSE	106%	10-130%
	d9-EtFOSE	95%	10-130%
	13C2-4:2FTS	162%	40-200%
	13C2-6:2FTS	133%	40-200%
	13C2-8:2FTS	131%	40-300%
	13C3-HFPO-DA	80%	40-130%

Blank Spike Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70323-LLBS	1Q31741.D	1	01/08/26	VL	01/08/26	OP70323	T1Q511

The QC reported here applies to the following samples: **Method:** EPA 1633

JE26414-1A, JE26414-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0036	90	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0036	90	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0030	75	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0035	88	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0036	98	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0037	100	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	110%	5-130%
	13C5-PFPeA	107%	40-130%
	13C5-PFHxA	106%	40-130%
	13C4-PFHpA	106%	40-130%
	13C8-PFOA	111%	40-130%
	13C9-PFNA	114%	40-130%
	13C6-PFDA	107%	40-130%
	13C7-PFUnDA	115%	30-130%
	13C2-PFDoDA	110%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	122%	40-135%
	13C3-PFHxS	106%	40-130%
	13C8-PFOS	100%	40-130%
	13C8-FOSA	109%	40-130%
	d3-MeFOSA	98%	10-130%
	d5-EtFOSA	100%	10-130%
	d3-MeFOSAA	110%	40-170%
	d5-EtFOSAA	114%	25-135%
	d7-MeFOSE	103%	10-130%
	d9-EtFOSE	104%	10-130%
	13C2-4:2FTS	148%	40-200%
	13C2-6:2FTS	142%	40-200%
	13C2-8:2FTS	135%	40-300%
	13C3-HFPO-DA	89%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70323-BS	1Q31742.D	1	01/08/26	VL	01/08/26	OP70323	T1Q511

The QC reported here applies to the following samples: **Method:** EPA 1633

JE26414-1A, JE26414-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0231	92	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0220	88	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0218	87	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0233	93	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0189	83	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0192	83	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	111%	5-130%
	13C5-PFPeA	108%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	102%	40-130%
	13C8-PFOA	111%	40-130%
	13C9-PFNA	108%	40-130%
	13C6-PFDA	105%	40-130%
	13C7-PFUnDA	108%	30-130%
	13C2-PFDoDA	103%	10-130%
	13C2-PFTeDA	102%	10-130%
	13C3-PFBS	116%	40-135%
	13C3-PFHxS	117%	40-130%
	13C8-PFOS	113%	40-130%
	13C8-FOSA	111%	40-130%
	d3-MeFOSA	95%	10-130%
	d5-EtFOSA	95%	10-130%
	d3-MeFOSAA	116%	40-170%
	d5-EtFOSAA	117%	25-135%
	d7-MeFOSE	95%	10-130%
	d9-EtFOSE	97%	10-130%
	13C2-4:2FTS	153%	40-200%
	13C2-6:2FTS	131%	40-200%
	13C2-8:2FTS	144%	40-300%
	13C3-HFPO-DA	94%	40-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP70293A-BS12	2M146157.D	1	01/08/26	RS	01/07/26	OP70293A	E2M6598
OP70293A-BSD12	2M146158.D	1	01/08/26	RS	01/07/26	OP70293A	E2M6598

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE26414-1, JE26414-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	0.8	0.385	48	0.359	45	7	10-110/40

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	51%	40%	15-110%
4165-62-2	Phenol-d5	38%	30%	12-110%
118-79-6	2,4,6-Tribromophenol	87%	71%	32-143%
4165-60-0	Nitrobenzene-d5	76%	60%	29-124%
321-60-8	2-Fluorobiphenyl	59%	47%	23-122%
1718-51-0	Terphenyl-d14	75%	65%	22-130%

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T1Q511-CC509 **Injection Date:** 01/08/26
Lab File ID: 1Q31735.D **Injection Time:** 12:13
Instrument ID: GCMS1Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	67410	3.14	51005	5.70	104088	7.12	33320	7.63	27926	8.10
Check Std [c]	74546	3.16	53433	5.72	105192	7.14	34785	7.64	27316	8.12
Upper Limit [d]	134820	3.56	102010	6.12	208176	7.54	66640	8.04	55852	8.52
Lower Limit [e]	33705	2.76	25503	5.32	52044	6.74	16660	7.24	13963	7.72

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T1Q511-ICCB	118709	3.18	69685	5.72	133848	7.12	42931	7.63	32518	8.10	1
OP70323-MB	82029	3.16	57309	5.72	111952	7.12	36599	7.63	27978	8.10	1
ZZZZZZ	77949	3.16	55629	5.72	108854	7.12	34797	7.64	27654	8.12	1
ZZZZZZ	72566	3.16	51166	5.72	103351	7.12	33257	7.63	27336	8.10	1
OP70323-LLBS	73500	3.16	55202	5.72	101981	7.12	32986	7.63	26996	8.12	1
OP70323-BS	70180	3.16	52811	5.71	99689	7.12	32729	7.63	26769	8.10	1
OP70323-MS	69808	3.16	50133	5.72	98318	7.12	31842	7.63	25729	8.12	1
OP70323-MSD	73168	3.16	52649	5.71	105305	7.12	33345	7.63	26765	8.10	1
ZZZZZZ	67960	3.16	49170	5.71	94531	7.12	31532	7.63	25284	8.10	1
ZZZZZZ	66624	3.16	45989	5.71	93577	7.12	30326	7.64	25064	8.12	1
ZZZZZZ	64967	3.16	48911	5.71	97374	7.12	32100	7.64	25780	8.12	1
JE26384-1A	71925	3.16	51507	5.71	100040	7.12	32643	7.64	25808	8.12	1
ZZZZZZ	68499	3.16	49075	5.71	95437	7.12	32275	7.63	26083	8.12	1
JE26414-1A	68864	3.16	49684	5.72	103107	7.12	33863	7.63	26281	8.12	1
JE26414-2A	67921	3.16	54146	5.71	104535	7.12	34151	7.64	28019	8.12	1
ZZZZZZ	73357	3.16	51452	5.71	105627	7.12	33388	7.63	27900	8.12	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q509-ICC509 1Q31697.D 01/06/26 13:58. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T1Q511-CC509	**Injection Date:**	01/08/26
Lab File ID:	1Q31735.D	**Injection Time:**	12:13
Instrument ID:	GCMS1Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	12855	7.23	18089	8.25
Check Std [c]	12903	7.24	17794	8.27
Upper Limit [d]	25710	7.64	36178	8.67
Lower Limit [e]	6428	6.84	9045	7.87

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T1Q511-ICCB	12998	7.24	19198	8.25	1
OP70323-MB	12433	7.24	17270	8.25	1
ZZZZZZ	12472	7.24	18244	8.27	1
ZZZZZZ	12684	7.24	17831	8.27	1
OP70323-LLBS	12684	7.24	17663	8.27	1
OP70323-BS	11793	7.24	17164	8.27	1
OP70323-MS	12478	7.24	17838	8.27	1
OP70323-MSD	13542	7.24	17393	8.27	1
ZZZZZZ	11696	7.24	16649	8.27	1
ZZZZZZ	11255	7.24	16962	8.27	1
ZZZZZZ	10988	7.24	16085	8.27	1
JE26384-1A	11994	7.24	18045	8.27	1
ZZZZZZ	12396	7.24	17313	8.27	1
JE26414-1A	12348	7.24	19332	8.27	1
JE26414-2A	12825	7.24	17602	8.27	1
ZZZZZZ	12169	7.24	18185	8.27	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q509-ICC509 1Q31697.D 01/06/26 13:58. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Internal Standard Area Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: E2M6598-CC6547 **Injection Date:** 01/08/26
Lab File ID: 2M146152.D **Injection Time:** 10:24
Instrument ID: GCMS2M **Method:** SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	36549	5.87	47873	6.94	76381	8.82	81776	11.46
Upper Limit [a]	73098	6.37	95746	7.44	152762	9.32	163552	11.96
Lower Limit [b]	18275	5.37	23937	6.44	38191	8.32	40888	10.96

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP70293A-MB1	38994	5.87	50843	6.94	79449	8.83	83833	11.46
OP70313A-MB1	40524	5.86	52210	6.94	81188	8.82	90852	11.45
OP70293A-BS12	39810	5.86	52804	6.94	81511	8.82	86062	11.45
OP70293A-BSD12	40021	5.86	53598	6.94	81216	8.82	85395	11.45
OP70313A-BS12	41071	5.86	54746	6.94	82409	8.82	88670	11.45
OP70313A-BSD12	41957	5.86	55827	6.94	83654	8.82	90940	11.45
ZZZZZZ	42052	5.86	54590	6.94	83483	8.83	90421	11.46
ZZZZZZ	41129	5.86	53418	6.94	82196	8.82	90246	11.45
ZZZZZZ	42935	5.86	56591	6.94	83693	8.82	97781	11.46
ZZZZZZ	42341	5.86	54835	6.94	85358	8.82	93348	11.45
ZZZZZZ	41583	5.86	53183	6.94	82256	8.82	90835	11.45
ZZZZZZ	40004	5.86	50840	6.94	78895	8.82	88693	11.45
ZZZZZZ	42081	5.86	54483	6.94	82966	8.82	91993	11.45
ZZZZZZ	42609	5.86	54717	6.94	84515	8.82	93372	11.45
ZZZZZZ	42603	5.86	55193	6.94	83163	8.82	84374	11.45
ZZZZZZ	43824	5.86	56689	6.94	85778	8.82	88722	11.45
JE26414-1	40317	5.86	53165	6.94	83599	8.82	91266	11.46
JE26414-2	40596	5.86	53678	6.94	83775	8.82	92285	11.46

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Isotope Dilution Standard Recovery Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE26414-1A	1Q31750.D	114	109	102	106	119	93
JE26414-2A	1Q31751.D	101	111	104	109	113	102
OP70323-BS	1Q31742.D	102	111	108	105	117	113
OP70323-LLBS	1Q31741.D	106	111	114	107	106	100
OP70323-MB	1Q31738.D	101	111	108	113	105	102
T1Q509-IBLK	1Q31702.D	97	99	93	98	92	103
T1Q511-IBLK	1Q31734.D	101	98	99	97	106	95
T1Q511-ICCB	1Q31737.D	99	102	101	108	104	101

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFHpA	40-130%
S2 = 13C8-PFOA	40-130%
S3 = 13C9-PFNA	40-130%
S4 = 13C6-PFDA	40-130%
S5 = 13C3-PFHxS	40-130%
S6 = 13C8-PFOS	40-130%

Surrogate Recovery Summary

Job Number: JE26414
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JE26414-1	2M146171.D	67	45	80
JE26414-2	2M146172.D	66	50	62
OP70293A-BS12	2M146157.D	76	59	75
OP70293A-BSD122	M146158.D	60	47	65
OP70293A-MB1	2M146154.D	65	47	75

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59678 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 01/07/26

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.04	.092	-0.0034	<0.20

Associated samples MP59678: JE26414-1, JE26414-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59678
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date:			01/07/26					01/07/26	
Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.1	2	105.0	85-115	2.0	2	100.0	4.9	

Associated samples MP59678: JE26414-1, JE26414-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59685
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 01/07/26

Metal	RL	IDL	MDL	MB raw	MB final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88	0.064	<2.0
Arsenic	1.0	.025	.25	-0.022	<1.0
Barium	1.0	.009	.36		
Beryllium	0.50	.005	.065		
Boron	50	.85	18		
Cadmium	0.50	.01	.099	0.0055	<0.50
Calcium	250	3.6	35		
Chromium	4.0	.018	.33	-0.0052	<4.0
Cobalt	0.50	.003	.06		
Copper	4.0	.024	.65	-0.10	<4.0
Iron	50	.24	12		
Lead	0.50	.008	.14	0.012	<0.50
Magnesium	250	.19	43		
Manganese	1.0	.012	.38		
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	.26	-0.36	<4.0
Potassium	250	.78	43		
Selenium	1.0	.044	.38		
Silver	2.0	.004	.1	0.010	<2.0
Sodium	250	1.5	50		
Strontium	5.0	.014	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7	-0.47	<10

Associated samples MP59685: JE26414-1, JE26414-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59685
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date:		01/07/26				01/07/26	
Metal	BSP Result	Spikelot MPX200.8B% Rec	QC Limits	BSP Result	Spikelot MPX200.8B% Rec	QC Limits	
Aluminum	anr						
Antimony	80.1	80	100.1	85-115	79.1	80	98.9	85-115
Arsenic	80.2	80	100.3	85-115	80.1	80	100.1	85-115
Barium								
Beryllium	anr							
Boron								
Cadmium	76.7	80	95.9	85-115	77.3	80	96.6	85-115
Calcium								
Chromium	79.0	80	98.8	85-115	77.9	80	97.4	85-115
Cobalt								
Copper	78.2	80	97.8	85-115	77.9	80	97.4	85-115
Iron	anr							
Lead	78.9	80	98.6	85-115	78.2	80	97.8	85-115
Magnesium								
Manganese								
Molybdenum								
Nickel	76.8	80	96.0	85-115	76.4	80	95.5	85-115
Potassium								
Selenium	anr							
Silver	79.9	80	99.9	85-115	80.0	80	100.0	85-115
Sodium								
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	78.2	80	97.8	85-115	78.8	80	98.5	85-115

Associated samples MP59685: JE26414-1, JE26414-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59688
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/07/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	77		
Antimony	6.0	2.8	4.1		
Arsenic	3.0	2.6	2.5		
Barium	200	.2	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.5	4.8		
Boron	100	1.8	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	13	130	2.8	<5000
Cerium	100				
Chromium	10	.7	1.5		
Cobalt	50	.6	2.5		
Copper	10	.7	4.1		
Iron	100	3.3	30	-7.5	<100
Lead	3.0	2	2.4		
Lithium	50	1.5	9.1		
Magnesium	5000	25	200	-13	<5000
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.8	1.8		
Phosphorus	50	7	14		
Potassium	10000	35	200		
Selenium	10	3.6	5.5	-1.8	<10
Silicon	200	2.2	130		
Silver	10	.6	2.4		
Sodium	10000	14	900		
Strontium	10	.1	1.6		
Sulfur	50	3.7	18		
Thallium	10	5.2	1.9		
Tin	50	1.4	4.7		
Titanium	10	.8	1.9		
Tungsten	50	1.3	19		
Vanadium	50	.5	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59688
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/07/26

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	8.5		
Zirconium	10	.5	4.9		

Associated samples MP59688: JE26414-1, JE26414-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59688
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:		01/07/26						01/07/26	
Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits	BSD Result	Spikelot MP200.7A	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	26600	25000	106.4	85-115	25900	25000	103.6	2.7	20
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	25500	25000	102.0	85-115	24900	25000	99.6	2.4	20
Lead	anr								
Lithium									
Magnesium	26300	25000	105.2	85-115	25700	25000	102.8	2.3	20
Manganese									
Molybdenum	anr								
Nickel	anr								
Phosphorus									
Potassium	anr								
Selenium	2370	2000	118.5*(a	85-115	2320	2000	116.0*(a	2.1	20
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium	anr								
Tin									
Titanium									
Tungsten									
Vanadium	anr								

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59688
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/07/26 01/07/26

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits	BSD Result	Spikelot MP200.7A % Rec	BSD RPD	QC Limit
Zinc	anr						
Zirconium							

Associated samples MP59688: JE26414-1, JE26414-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Spike blank indicates possible high bias, but all associated samples < RL.

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59688
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/07/26

Metal	JE26401-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	54800	55200	0.6	0-10
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	6860	7130	4.0	0-10
Lead	anr			
Lithium				
Magnesium	11000	11300	3.2	0-10
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	anr			
Zinc	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP59688 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 01/07/26

	JE26401-2		QC
Metal	Original SDL 1:5	%DIF	Limits
Zirconium			

Associated samples MP59688: JE26414-1, JE26414-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JE26414
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Bromide	GP66865/GN78056	0.50	0.0	mg/l	2	1.93	96.5	90-110%
Chloride	GP66865/GN78056	2.0	0.0	mg/l	80	81.8	102.3	90-110%
Chromium, Hexavalent	GN78005	0.010	0.0	mg/l	0.150	0.150	100.0	90-110%
Cyanide	GP66842/GN78041	0.010	0.0	mg/l	0.2	0.201	100.5	90-110%
Fluoride	GP66865/GN78056	0.20	0.0	mg/l	2	2.11	105.5	90-110%
HEM Petroleum Hydrocarbons	GP66898/GN78102	5.0	0.0	mg/l	20	20.4	102.0	64-132%
Hardness, Total as CaCO3	GN78171			mg/l	160	163	101.9	80-120%
Hardness, Total as CaCO3	GN78171	5.0	0.0	mg/l	80	80.0	100.0	80-120%
Nitrogen, Ammonia	GP66999/GN78259	0.20	0.0	mg/l	1	0.973	97.3	80-120%
Phenols	GP66838/GN78316	0.20	0.0	mg/l	0.5	0.524	104.8	90-110%
Solids, Total Dissolved	GN78007	10	0.0	mg/l	500	496	99.2	71-110%
Solids, Total Suspended	GN78006	4.0	0.0	mg/l	50	47.8	95.6	84-111%
Sulfate	GP66865/GN78056	2.0	0.0	mg/l	80	86.3	107.9	90-110%
Turbidity	GN78030	0.30	0.19	NTU	20	20.1	100.5	90-110%

Associated Samples:
Batch GN78005: JE26414-1, JE26414-2
Batch GN78006: JE26414-1, JE26414-2
Batch GN78007: JE26414-1, JE26414-2
Batch GN78030: JE26414-1, JE26414-2
Batch GN78171: JE26414-1, JE26414-2
Batch GP66838: JE26414-1, JE26414-2
Batch GP66842: JE26414-1, JE26414-2
Batch GP66865: JE26414-1, JE26414-2
Batch GP66898: JE26414-2
Batch GP66999: JE26414-1, JE26414-2
(*) Outside of QC limits

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE28846

Sampling Date: 02/25/26



Report to:

Tetra Tech
100 Nickerson Road
Marlborough, MA 01752
Thomas.Nunno@tetratech.com; cullen.bryant@tetratech.com

ATTN: Cullen Bryant

Total number of pages in report: 67

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Brittany Stacks 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE28846

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JE28846-1	02/25/26	11:40	CB	02/25/26	AQ	Influent	INFLUENT
JE28846-1A	02/25/26	11:40	CB	02/25/26	AQ	Influent	INFLUENT
JE28846-2	02/25/26	12:00	CB	02/25/26	AQ	Effluent	EFFLUENT
JE28846-2A	02/25/26	12:00	CB	02/25/26	AQ	Effluent	EFFLUENT
JE28846-3	02/25/26	12:15	CB	02/25/26	AQ	Water	MID
JE28846-4	02/25/26	12:15	CB	02/25/26	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech **Job No:** JE28846

Site: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA **Report Date** 3/5/2026 6:52:08 PM

On 02/25/2026, 3 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.1 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE28846 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V4A647

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- The blank spike (BS) recovery(s) of cis-1,2-Dichloroethene are outside control limits.
- JE28846-2 for cis-1,2-Dichloroethene: This compound in blank spike is outside in house QC limits bias high.
- V4A647-BS for cis-1,2-Dichloroethene: High percent recovery and no associated positive reported in the QC batch.
- JE28846-4 for cis-1,2-Dichloroethene: This compound in blank spike is outside in house QC limits bias high.

Matrix: AQ **Batch ID:** V4A648

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP71294

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP71250A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP60392

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE28839-1SDL were used as the QC samples for the metals analysis.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP60395

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP60399

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP68048

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 180.1

Matrix: AQ **Batch ID:** GN79767

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP68038

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP68034

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 420.4/LACHAT

Matrix: AQ **Batch ID:** GP68057

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2340 C-11/21

Matrix: AQ **Batch ID:** GN79804

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 C-15/20

Matrix: AQ **Batch ID:** GN79734

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 D-15/20

Matrix: AQ **Batch ID:** GN79729

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM4500NH3 H-11/21LAC

Matrix: AQ **Batch ID:** GP68035

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SW846 6010/7196A M

Matrix: AQ **Batch ID:** R222000

- The data for SW846 6010/7196A M meets quality control requirements.
- JE28846-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix: AQ **Batch ID:** R222001

- The data for SW846 6010/7196A M meets quality control requirements.
- JE28846-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

General Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN79730

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE28846
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 02/25/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE28846-1	**INFLUENT**					
1,1-Dichloroethane		4.7	1.0	0.42	ug/l	EPA 624.1
1,1-Dichloroethene		21.6	1.0	0.45	ug/l	EPA 624.1
cis-1,2-Dichloroethene		1.1	1.0	0.51	ug/l	EPA 624.1
Tetrachloroethene		248	10	4.1	ug/l	EPA 624.1
1,1,1-Trichloroethane		89.9	1.0	0.43	ug/l	EPA 624.1
Trichloroethene		5.3	1.0	0.43	ug/l	EPA 624.1
Calcium		231000	10000	250	ug/l	EPA 200.7
Chromium		1.8 J	4.0	0.33	ug/l	EPA 200.8
Copper		1.2 J	4.0	0.65	ug/l	EPA 200.8
Iron		47.4 J	100	30	ug/l	EPA 200.7
Magnesium		84900	5000	200	ug/l	EPA 200.7
Nickel		0.69 J	4.0	0.26	ug/l	EPA 200.8
Chloride		756	8.0	3.3	mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		938	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		1690	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended		1.0 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.19 J	0.30	0.034	NTU	EPA 180.1
JE28846-1A	**INFLUENT**					
Perfluoroheptanoic acid		0.0395	0.0020	0.00050	ug/l	EPA 1633
Perfluorooctanoic acid		0.0947	0.0020	0.00075	ug/l	EPA 1633
Perfluorononanoic acid		0.0925	0.0020	0.00040	ug/l	EPA 1633
Perfluorodecanoic acid		0.0506	0.0020	0.00062	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0040	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0256	0.0020	0.00043	ug/l	EPA 1633
JE28846-2	**EFFLUENT**					
Calcium		224000	10000	250	ug/l	EPA 200.7
Chromium		1.5 J	4.0	0.33	ug/l	EPA 200.8
Magnesium		79600	5000	200	ug/l	EPA 200.7
Nickel		0.64 J	4.0	0.26	ug/l	EPA 200.8
Chloride		739	8.0	3.3	mg/l	EPA 300/SW846 9056A
HEM Petroleum Hydrocarbons		3.0 J	5.0	0.86	mg/l	EPA 1664A
Hardness, Total as CaCO3		929	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		1490	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended		1.2 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.18 J	0.30	0.034	NTU	EPA 180.1
JE28846-2A	**EFFLUENT**					
Perfluoroheptanoic acid		0.0234	0.0021	0.00052	ug/l	EPA 1633

Summary of Hits

Job Number: JE28846
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 02/25/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perfluorooctanoic acid		0.0494	0.0021	0.00078	ug/l	EPA 1633
Perfluorononanoic acid		0.0446	0.0021	0.00042	ug/l	EPA 1633
Perfluorodecanoic acid		0.0216	0.0021	0.00065	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0022	0.0021	0.0012	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0125	0.0021	0.00045	ug/l	EPA 1633
JE28846-3	**MID**					
Perfluoroheptanoic acid		0.0331	0.0020	0.00051	ug/l	EPA 1633
Perfluorooctanoic acid		0.0708	0.0020	0.00077	ug/l	EPA 1633
Perfluorononanoic acid		0.0693	0.0020	0.00041	ug/l	EPA 1633
Perfluorodecanoic acid		0.0357	0.0020	0.00064	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0029	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0210	0.0020	0.00044	ug/l	EPA 1633
JE28846-4	**TRIP BLANK**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE28846-1	**Date Sampled:**	02/25/26
Matrix:	AQ - Influent	**Date Received:**	02/25/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4A24034.D	1	02/27/26 14:47	NW	n/a	n/a	V4A648
Run #2	4A24033.D	10	02/27/26 14:21	NW	n/a	n/a	V4A648

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	4.7	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	21.6	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.1	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	248 [a]	10	4.1	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	89.9	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	5.3	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	91%	92%	80-128%
2037-26-5	Toluene-D8 (SUR)	106%	105%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	103%	99%	79-117%
1868-53-7	Dibromofluoromethane (S)	110%	109%	84-121%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE28846-1	**Date Sampled:**	02/25/26
Matrix:	AQ - Influent	**Date Received:**	02/25/26
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M147127.D	1	02/27/26 17:39	AO	02/26/26 09:30	OP71250A	E2M6640
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	39%		29-124%
321-60-8	2-Fluorobiphenyl	33%		23-122%
1718-51-0	Terphenyl-d14	39%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE28846-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 02/25/26
Date Received: 02/25/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Arsenic	0.25 U	1.0	0.25	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Cadmium	0.099 U	0.50	0.099	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Calcium	231000	10000	250	ug/l	2	02/26/26	02/27/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium	1.8 J	4.0	0.33	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Copper	1.2 J	4.0	0.65	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Iron	47.4 J	100	30	ug/l	1	02/26/26	02/26/26	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	0.14 U	0.50	0.14	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Magnesium	84900	5000	200	ug/l	1	02/26/26	02/26/26	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.092 U	0.20	0.092	ug/l	1	02/26/26	02/26/26	SK	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	0.69 J	4.0	0.26	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Selenium	5.5 U	10	5.5	ug/l	1	02/26/26	02/26/26	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	0.10 U	2.0	0.10	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Zinc	3.7 U	10	3.7	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]

(1) Instrument QC Batch: MA60338
(2) Instrument QC Batch: MA60342
(3) Instrument QC Batch: MA60348
(4) Instrument QC Batch: MA60349
(5) Prep QC Batch: MP60392
(6) Prep QC Batch: MP60395
(7) Prep QC Batch: MP60399

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE28846-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 02/25/26
Date Received: 02/25/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	756	8.0	3.3	mg/l	4	02/28/26 00:20	MS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0026 U	0.010	0.0026	mg/l	1	02/26/26 09:06	LV	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	02/27/26 12:02	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	02/26/26 20:23	JD	EPA 335.4/LACHAT
Hardness, Total as CaCO3	938	5.0	3.9	mg/l	1	02/27/26 19:06	MAZ	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	02/26/26 18:21	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	02/27/26 14:39	SS	EPA 420.4/LACHAT
Solids, Total Dissolved	1690	10	6.0	mg/l	1	02/26/26 16:00	SD	SM2540 C-15/20
Solids, Total Suspended	1.0 J	4.0	0.90	mg/l	1	02/26/26 13:00	SD	SM2540 D-15/20
Turbidity	0.19 J	0.30	0.034	NTU	1	02/26/26 20:26	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE28846-1A	**Date Sampled:**	02/25/26
Matrix:	AQ - Influent	**Date Received:**	02/25/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1Q32780.D	1	03/01/26 01:49	AM	02/27/26 10:00	OP71294	T1Q542
Run #2							

	Initial Volume	Final Volume
Run #1	497 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0395	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.0947	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	0.0925	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	0.0506	0.0020	0.00062	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0040	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0256	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	111%		40-130%
	13C8-PFOA	104%		40-130%
	13C9-PFNA	109%		40-130%
	13C6-PFDA	104%		40-130%
	13C3-PFHxS	92%		40-130%
	13C8-PFOS	115%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE28846-2	**Date Sampled:**	02/25/26
Matrix:	AQ - Effluent	**Date Received:**	02/25/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4A23994.D	1	02/26/26 12:28	NW	n/a	n/a	V4A647
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene [a]	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%		80-128%
2037-26-5	Toluene-D8 (SUR)	104%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	102%		79-117%
1868-53-7	Dibromofluoromethane (S)	110%		84-121%

(a) This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE28846-2	**Date Sampled:**	02/25/26
Matrix:	AQ - Effluent	**Date Received:**	02/25/26
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M147128.D	1	02/27/26 18:00	AO	02/26/26 09:30	OP71250A	E2M6640
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		29-124%
321-60-8	2-Fluorobiphenyl	59%		23-122%
1718-51-0	Terphenyl-d14	75%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE28846-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 02/25/26
Date Received: 02/25/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Arsenic	0.25 U	1.0	0.25	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Cadmium	0.099 U	0.50	0.099	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Calcium	224000	10000	250	ug/l	2	02/26/26	02/27/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium	1.5 J	4.0	0.33	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Copper	0.65 U	4.0	0.65	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Iron	30 U	100	30	ug/l	1	02/26/26	02/26/26	LM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	0.14 U	0.50	0.14	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Magnesium	79600	5000	200	ug/l	1	02/26/26	02/26/26	LM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.092 U	0.20	0.092	ug/l	1	02/26/26	02/26/26	SK	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	0.64 J	4.0	0.26	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Selenium	5.5 U	10	5.5	ug/l	1	02/26/26	02/26/26	LM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	0.10 U	2.0	0.10	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Zinc	3.7 U	10	3.7	ug/l	1	02/26/26	02/27/26	NV	EPA 200.8 [4]	EPA 200.8 [6]

(1) Instrument QC Batch: MA60338
(2) Instrument QC Batch: MA60342
(3) Instrument QC Batch: MA60348
(4) Instrument QC Batch: MA60349
(5) Prep QC Batch: MP60392
(6) Prep QC Batch: MP60395
(7) Prep QC Batch: MP60399

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE28846-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 02/25/26
Date Received: 02/25/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	739	8.0	3.3	mg/l	4	02/28/26 00:33	MS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0026 U	0.010	0.0026	mg/l	1	02/26/26 09:06	LV	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	02/27/26 12:06	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	02/26/26 20:24	JD	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbons	3.0 J	5.0	0.86	mg/l	1	02/27/26 13:00	SS	EPA 1664A
Hardness, Total as CaCO3	929	5.0	3.9	mg/l	1	02/27/26 19:06	MAZ	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	02/26/26 18:22	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	02/27/26 14:42	SS	EPA 420.4/LACHAT
Solids, Total Dissolved	1490	10	6.0	mg/l	1	02/26/26 16:00	SD	SM2540 C-15/20
Solids, Total Suspended	1.2 J	4.0	0.90	mg/l	1	02/26/26 13:00	SD	SM2540 D-15/20
Turbidity	0.18 J	0.30	0.034	NTU	1	02/26/26 20:26	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE28846-2A	**Date Sampled:**	02/25/26
Matrix:	AQ - Effluent	**Date Received:**	02/25/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1Q32781.D	1	03/01/26 02:03	AM	02/27/26 10:00	OP71294	T1Q542
Run #2							

	Initial Volume	Final Volume
Run #1	478 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0234	0.0021	0.00052	ug/l	
335-67-1	Perfluorooctanoic acid	0.0494	0.0021	0.00078	ug/l	
375-95-1	Perfluorononanoic acid	0.0446	0.0021	0.00042	ug/l	
335-76-2	Perfluorodecanoic acid	0.0216	0.0021	0.00065	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0022	0.0021	0.0012	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0125	0.0021	0.00045	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	111%		40-130%
	13C8-PFOA	108%		40-130%
	13C9-PFNA	111%		40-130%
	13C6-PFDA	108%		40-130%
	13C3-PFHxS	120%		40-130%
	13C8-PFOS	120%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID
Lab Sample ID: JE28846-3
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 02/25/26
Date Received: 02/25/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1Q32779.D	1	03/01/26 01:34	AM	02/27/26 10:00	OP71294	T1Q542
Run #2							

	Initial Volume	Final Volume
Run #1	488 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0331	0.0020	0.00051	ug/l	
335-67-1	Perfluorooctanoic acid	0.0708	0.0020	0.00077	ug/l	
375-95-1	Perfluorononanoic acid	0.0693	0.0020	0.00041	ug/l	
335-76-2	Perfluorodecanoic acid	0.0357	0.0020	0.00064	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0029	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0210	0.0020	0.00044	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	108%		40-130%
	13C8-PFOA	107%		40-130%
	13C9-PFNA	109%		40-130%
	13C6-PFDA	97%		40-130%
	13C3-PFHxS	113%		40-130%
	13C8-PFOS	99%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE28846-4	**Date Sampled:**	02/25/26
Matrix:	AQ - Trip Blank Water	**Date Received:**	02/25/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4A23996.D	1	02/26/26 13:21	NW	n/a	n/a	V4A647
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene [a]	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%		80-128%
2037-26-5	Toluene-D8 (SUR)	105%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	103%		79-117%
1868-53-7	Dibromofluoromethane (S)	110%		84-121%

(a) This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certification Exceptions

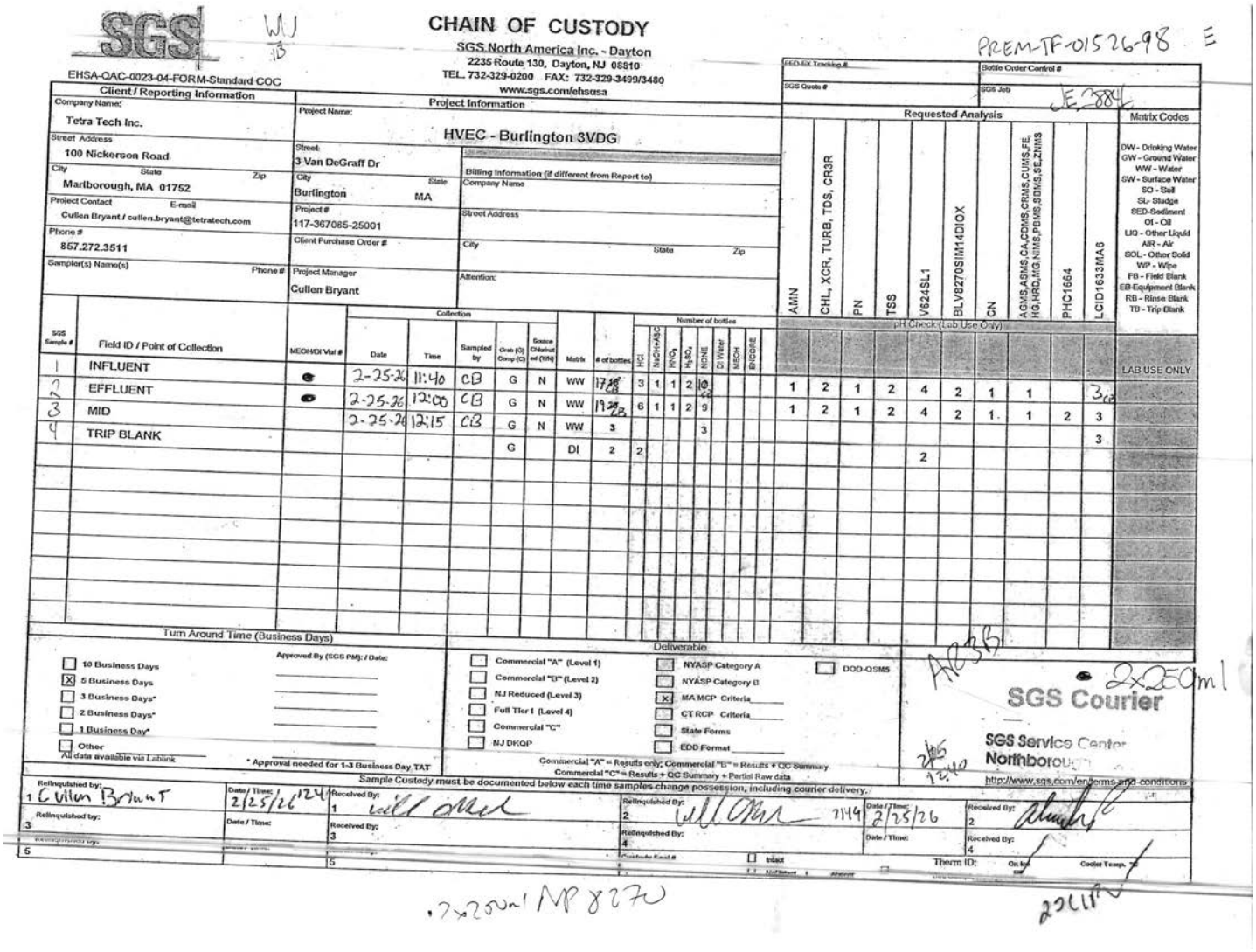
Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		**SW846 6010/7196A M**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

PREM-TF-01526-98

JE 28846

Client / Reporting Information

Company Name: Tetra Tech Inc.
Street Address: 100 Nickerson Road
City: Marlborough, MA 01752
Project Contact / E-mail: Cullen Bryant / cullen.bryant@tetratech.com
Phone #: 857.272.3511
Sampler(s) Name(s) / Phone #:

Project Information

Project Name: HVEC - Burlington 3VDG
Street: 3 Van DeGraff Dr
City: Burlington State: MA
Project #: 117-367085-25001
Client Purchase Order #:
Project Manager: Cullen Bryant

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

SGS EDX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Ground water (GW)	Matrix	# of bottles	Number of bottles: HCl	NaOH+ASC	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	AMN	CHL, XCR, TURB, TDS, CR3R	PN	TSS	V624SL1	BLV8270SIM14DIOX	CN	AGMS,ASMS,CA,CDMS,CRMS,CUMS,FE,HG,HRD,MG,NIMS,PBMS,SBMS,SE,ZNMS	PHC1664	LCID1633MA6
1	INFLUENT		2-25-26	11:40	CB	G	N	WW	17	3	1	1	2	10				1	2	1	2	4	2	1	1		3
2	EFFLUENT		2-25-26	12:00	CB	G	N	WW	19	6	1	1	2	9				1	2	1	2	4	2	1	1	2	3
3	MID		2-25-26	12:15	CB	G	N	WW	3					3								2					3
4	TRIP BLANK					G		DI	2	2																	

pH Check (Lab Use Only)

LAB USE ONLY

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [x] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	C Cullen Bryant	2/25/26 1124	1
2			2
3			3
4			4
5			5

Therm ID: On Ice: Cooler Temp.:

SGS Courier
SGS Service Center
Northborough

http://www.sgs.com/en/terms-and-conditions

SGS Sample Receipt Summary

Job Number: JE28846 **Client:** TETRA TECH **Project:** HVEC - MONTHLY RGP , 3 VAN DE GRA

Date / Time Received: 2/25/2026 12:40:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE28846
Project Location:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE28846-1,JE28846-1A,JE28846-2,JE28846-2A,JE28846-3,JE28846-4

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC (X) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

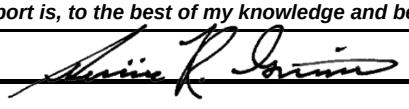
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No	
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No	
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No	
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No	
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ Yes	☐ No ☐ No	
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No	

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]	
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.			
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]	
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]	

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **05-Mar-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE28846

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE28846-1	Collected: 25-FEB-26 11:40 By: CB		Received: 25-FEB-26 By: JR			
INFLUENT						
JE28846-1	SW846 7196A	26-FEB-26 09:06	LV			XCR
JE28846-1	SM2540 D-15/20	26-FEB-26 13:00	SD			TSS
JE28846-1	EPA 245.1	26-FEB-26 14:32	SK	26-FEB-26	SK	HG
JE28846-1	SM2540 C-15/20	26-FEB-26 16:00	SD			TDS
JE28846-1	SM4500NH3 H-11/21LACH	26-FEB-26 18:21	JD	26-FEB-26	JD	AMN
JE28846-1	EPA 200.7	26-FEB-26 19:19	LM	26-FEB-26	MG	FE,MG,SE
JE28846-1	EPA 335.4/LACHAT	26-FEB-26 20:23	JD	26-FEB-26	BV	CN
JE28846-1	EPA 180.1	26-FEB-26 20:26	DB			TURB
JE28846-1	EPA 200.8	27-FEB-26 12:02	NV	26-FEB-26	MJ	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE28846-1	SW846 6010/7196A M	27-FEB-26 12:02	NV			CR3R
JE28846-1	EPA 200.7	27-FEB-26 13:45	LM	26-FEB-26	MG	CA
JE28846-1	EPA 624.1	27-FEB-26 14:21	NW			V624SL1
JE28846-1	EPA 420.4/LACHAT	27-FEB-26 14:39	SS	27-FEB-26	KG	PN
JE28846-1	EPA 624.1	27-FEB-26 14:47	NW			V624SL1
JE28846-1	SW846 8270E BY SIM	27-FEB-26 17:39	AO	26-FEB-26	AM	BLV8270SIM14DIOX
JE28846-1	SM2340 C-11/21	27-FEB-26 19:06	MAZ			HRD
JE28846-1	EPA 300/SW846 9056A	28-FEB-26 00:20	MS	26-FEB-26	MS	CHL
JE28846-2	Collected: 25-FEB-26 12:00 By: CB		Received: 25-FEB-26 By: JR			
EFFLUENT						
JE28846-2	SW846 7196A	26-FEB-26 09:06	LV			XCR
JE28846-2	EPA 624.1	26-FEB-26 12:28	NW			V624SL1
JE28846-2	SM2540 D-15/20	26-FEB-26 13:00	SD			TSS
JE28846-2	EPA 245.1	26-FEB-26 14:35	SK	26-FEB-26	SK	HG
JE28846-2	SM2540 C-15/20	26-FEB-26 16:00	SD			TDS
JE28846-2	SM4500NH3 H-11/21LACH	26-FEB-26 18:22	JD	26-FEB-26	JD	AMN
JE28846-2	EPA 200.7	26-FEB-26 19:24	LM	26-FEB-26	MG	FE,MG,SE
JE28846-2	EPA 335.4/LACHAT	26-FEB-26 20:24	JD	26-FEB-26	BV	CN
JE28846-2	EPA 180.1	26-FEB-26 20:26	DB			TURB
JE28846-2	EPA 200.8	27-FEB-26 12:06	NV	26-FEB-26	MJ	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE28846-2	SW846 6010/7196A M	27-FEB-26 12:06	NV			CR3R
JE28846-2	EPA 1664A	27-FEB-26 13:00	SS	27-FEB-26	SS	PHC1664
JE28846-2	EPA 200.7	27-FEB-26 13:50	LM	26-FEB-26	MG	CA
JE28846-2	EPA 420.4/LACHAT	27-FEB-26 14:42	SS	27-FEB-26	KG	PN

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE28846

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE28846-2	SW846 8270E BY SIM	27-FEB-26 18:00	AO	26-FEB-26	AM	BLV8270SIM14DIOX
JE28846-2	SM2340 C-11/21	27-FEB-26 19:06	MAZ			HRD
JE28846-2	EPA 300/SW846 9056A	28-FEB-26 00:33	MS	26-FEB-26	MS	CHL
JE28846-3	Collected: 25-FEB-26 12:15 By: CB		Received: 25-FEB-26 By: JR			
MID						
JE28846-3	EPA 1633	01-MAR-26 01:34	AM	27-FEB-26	DC	LCID1633MA6
JE28846-4	Collected: 25-FEB-26 12:15 By: CB		Received: 25-FEB-26 By: JR			
TRIP BLANK						
JE28846-4	EPA 624.1	26-FEB-26 13:21	NW			V624SL1
JE28846-1A	Collected: 25-FEB-26 11:40 By: CB		Received: 25-FEB-26 By: JR			
INFLUENT						
JE28846-1A	EPA 1633	01-MAR-26 01:49	AM	27-FEB-26	DC	LCID1633MA6
JE28846-2A	Collected: 25-FEB-26 12:00 By: CB		Received: 25-FEB-26 By: JR			
EFFLUENT						
JE28846-2A	EPA 1633	01-MAR-26 02:03	AM	27-FEB-26	DC	LCID1633MA6

QC Evaluation: MA MCP Limits

Job Number: JE28846
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 02/25/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP71250A	SW846 8270E BY SIM						
OP71250A-BS12	123-91-1	1,4-Dioxane	BSP	REC	33	%	40-140
OP71250A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	60	%	30-130
OP71250A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	47	%	30-130
OP71250A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	71	%	30-130
OP71250A-BSD12	123-91-1	1,4-Dioxane	BSD	REC	38	%	40-140
OP71250A-BSD12	123-91-1	1,4-Dioxane	BSD	RPD	16	%	30
OP71250A-BSD12	4165-60-0	Nitrobenzene-d5	BSD	SURR	70	%	30-130
OP71250A-BSD12	321-60-8	2-Fluorobiphenyl	BSD	SURR	55	%	30-130
OP71250A-BSD12	1718-51-0	Terphenyl-d14	BSD	SURR	68	%	30-130
OP71250A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	68	%	30-130
OP71250A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	51	%	30-130
OP71250A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	68	%	30-130
JE28846-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	39	%	30-130
JE28846-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	33	%	30-130
JE28846-1	1718-51-0	Terphenyl-d14	SAMP	SURR	39	%	30-130
JE28846-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	73	%	30-130
JE28846-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	59	%	30-130
JE28846-2	1718-51-0	Terphenyl-d14	SAMP	SURR	75	%	30-130

* Sample used for QC is not from job JE28846

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4A647-MB	4A23992.D	1	02/26/26	NW	n/a	n/a	V4A647

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE28846-2, JE28846-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	96%	80-128%
2037-26-5	Toluene-D8 (SUR)	105%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	102%	79-117%
1868-53-7	Dibromofluoromethane (S)	108%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4A648-MB	4A24028.D	1	02/27/26	NW	n/a	n/a	V4A648

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE28846-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%	80-128%
2037-26-5	Toluene-D8 (SUR)	103%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%	79-117%
1868-53-7	Dibromofluoromethane (S)	110%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4A647-BS	4A23990A.D	1	02/26/26	NW	n/a	n/a	V4A647
V4A647-BSD	4A23991.D	1	02/26/26	NW	n/a	n/a	V4A647

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE28846-2, JE28846-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	92.6	116	93.2	117	1	26-198/39
71-43-2	Benzene	20	22.1	111	21.1	106	5	65-135/11
56-23-5	Carbon tetrachloride	20	21.5	108	20.9	105	3	70-130/13
95-50-1	1,2-Dichlorobenzene	20	23.3	117	22.5	113	3	65-135/12
541-73-1	1,3-Dichlorobenzene	20	22.1	111	21.5	108	3	70-130/12
106-46-7	1,4-Dichlorobenzene	20	23.0	115	22.1	111	4	65-135/12
75-34-3	1,1-Dichloroethane	20	23.0	115	21.8	109	5	70-130/12
107-06-2	1,2-Dichloroethane	20	19.4	97	18.8	94	3	70-130/11
75-35-4	1,1-Dichloroethene	20	22.5	113	21.7	109	4	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	24.3	122* [a]	23.6	118* [b]	3	72-116/12
100-41-4	Ethylbenzene	20	21.4	107	20.8	104	3	60-140/11
75-09-2	Methylene chloride	20	22.6	113	21.6	108	5	60-140/14
127-18-4	Tetrachloroethene	20	21.8	109	20.4	102	7	70-130/18
108-88-3	Toluene	20	21.8	109	20.7	104	5	70-130/13
71-55-6	1,1,1-Trichloroethane	20	21.3	107	20.8	104	2	70-130/12
79-00-5	1,1,2-Trichloroethane	20	23.5	118	23.0	115	2	70-130/14
79-01-6	Trichloroethene	20	21.5	108	21.3	107	1	65-135/13
75-01-4	Vinyl chloride	20	21.0	105	19.8	99	6	50-150/14
	m,p-Xylene	40	44.6	112	42.3	106	5	78-115/11
95-47-6	o-Xylene	20	21.9	110	20.8	104	5	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94%	92%	80-128%
2037-26-5	Toluene-D8 (SUR)	104%	102%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	106%	106%	79-117%
1868-53-7	Dibromofluoromethane (S)	107%	107%	84-121%

(a) High percent recovery and no associated positive reported in the QC batch.
(b) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4A648-BS	4A24026A.D	1	02/27/26	NW	n/a	n/a	V4A648
V4A648-BSD	4A24027.D	1	02/27/26	NW	n/a	n/a	V4A648

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE28846-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	95.2	119	90.4	113	5	26-198/39
71-43-2	Benzene	20	20.8	104	20.4	102	2	65-135/11
56-23-5	Carbon tetrachloride	20	20.9	105	21.0	105	0	70-130/13
95-50-1	1,2-Dichlorobenzene	20	21.6	108	21.5	108	0	65-135/12
541-73-1	1,3-Dichlorobenzene	20	20.5	103	20.4	102	0	70-130/12
106-46-7	1,4-Dichlorobenzene	20	21.2	106	20.8	104	2	65-135/12
75-34-3	1,1-Dichloroethane	20	21.1	106	20.4	102	3	70-130/12
107-06-2	1,2-Dichloroethane	20	18.4	92	17.9	90	3	70-130/11
75-35-4	1,1-Dichloroethene	20	21.3	107	20.8	104	2	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	23.1	116	22.3	112	4	72-116/12
100-41-4	Ethylbenzene	20	20.4	102	20.2	101	1	60-140/11
75-09-2	Methylene chloride	20	20.6	103	20.9	105	1	60-140/14
127-18-4	Tetrachloroethene	20	20.3	102	19.9	100	2	70-130/18
108-88-3	Toluene	20	20.8	104	19.8	99	5	70-130/13
71-55-6	1,1,1-Trichloroethane	20	19.7	99	19.4	97	2	70-130/12
79-00-5	1,1,2-Trichloroethane	20	22.7	114	21.2	106	7	70-130/14
79-01-6	Trichloroethene	20	20.6	103	20.2	101	2	65-135/13
75-01-4	Vinyl chloride	20	22.7	114	22.7	114	0	50-150/14
	m,p-Xylene	40	41.8	105	41.0	103	2	78-115/11
95-47-6	o-Xylene	20	20.4	102	20.1	101	1	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	91%	89%	80-128%
2037-26-5	Toluene-D8 (SUR)	103%	102%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	102%	105%	79-117%
1868-53-7	Dibromofluoromethane (S)	105%	104%	84-121%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V4A647-CC610	**Injection Date:**	02/26/26
Lab File ID:	4A23990.D	**Injection Time:**	10:26
Instrument ID:	GCMS4A	**Method:**	EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	66438	2.59	121455	3.60	199669	4.05	81106	7.52	168122	5.93
Upper Limit [a]	132876	3.09	242910	4.10	399338	4.55	162212	8.02	336244	6.43
Lower Limit [b]	33219	2.09	60728	3.10	99835	3.55	40553	7.02	84061	5.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4A647-BS	66438	2.59	121455	3.60	199669	4.05	81106	7.52	168122	5.93
V4A647-BSD	65329	2.59	118010	3.60	195071	4.05	81087	7.52	166755	5.93
V4A647-MB	58825	2.59	121586	3.60	196595	4.05	84473	7.52	163890	5.93
ZZZZZZ	62581	2.59	128171	3.60	207851	4.05	88067	7.52	172622	5.93
JE28846-2	67873	2.59	123034	3.60	199094	4.05	87914	7.52	168360	5.93
ZZZZZZ	66035	2.59	119557	3.60	194428	4.05	83848	7.52	163085	5.93
JE28846-4	59585	2.59	122414	3.60	199288	4.06	87625	7.52	167548	5.93
ZZZZZZ	66365	2.59	121554	3.60	198648	4.05	85902	7.52	166877	5.93
ZZZZZZ	60891	2.59	119955	3.60	194558	4.05	82747	7.52	163293	5.93
ZZZZZZ	54108	2.59	116893	3.60	191411	4.05	80285	7.52	157546	5.93
ZZZZZZ	51221	2.59	118942	3.60	188905	4.05	79275	7.52	158775	5.93
ZZZZZZ	66788	2.59	120271	3.60	196529	4.05	83729	7.52	164556	5.93
ZZZZZZ	60613	2.59	118566	3.60	194118	4.06	83409	7.52	163009	5.93
JE28812-1	58514	2.59	111138	3.60	187936	4.06	83373	7.52	157571	5.93
JE28812-1MS	69436	2.59	114474	3.60	193987	4.05	82046	7.52	166283	5.93
JE28812-1MSD	69700	2.59	113289	3.60	192147	4.05	81174	7.52	163572	5.93
JE28812-1	58771	2.59	122690	3.60	194359	4.05	85884	7.52	165751	5.93
ZZZZZZ	58712	2.59	121686	3.60	194943	4.05	84849	7.52	164947	5.93
ZZZZZZ	71125	2.59	119260	3.60	193675	4.05	86119	7.52	166090	5.93
ZZZZZZ	63262	2.59	119433	3.60	194534	4.05	84562	7.52	163255	5.93
ZZZZZZ	56270	2.59	119830	3.60	194661	4.05	83422	7.52	162406	5.93
ZZZZZZ	54744	2.59	120341	3.60	194804	4.05	84186	7.52	165434	5.93
ZZZZZZ	61005	2.59	118791	3.60	190245	4.05	85341	7.52	163339	5.93
ZZZZZZ	48640	2.59	117589	3.60	191768	4.05	81151	7.52	161000	5.93

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V4A648-CC610	**Injection Date:**	02/27/26
Lab File ID:	4A24026.D	**Injection Time:**	10:44
Instrument ID:	GCMS4A	**Method:**	EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	80264	2.59	122287	3.60	198814	4.05	83234	7.52	168275	5.93
Upper Limit [a]	160528	3.09	244574	4.10	397628	4.55	166468	8.02	336550	6.43
Lower Limit [b]	40132	2.09	61144	3.10	99407	3.55	41617	7.02	84138	5.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4A648-BS	80264	2.59	122287	3.60	198814	4.05	83234	7.52	168275	5.93
V4A648-BSD	86814	2.59	123955	3.60	202330	4.05	84171	7.52	172723	5.93
V4A648-MB	72125	2.59	120955	3.60	195380	4.05	86678	7.52	167642	5.93
ZZZZZZ	69515	2.59	124319	3.60	201372	4.05	85694	7.52	168719	5.93
JE28915-1	74251	2.59	121363	3.60	200089	4.05	86803	7.52	166973	5.93
JE28846-1	64838	2.59	122382	3.60	200496	4.06	85755	7.52	165629	5.93
JE28846-1	63586	2.60	123488	3.60	202671	4.06	85058	7.52	163019	5.93
ZZZZZZ	59407	2.59	121787	3.60	201835	4.06	85417	7.52	165591	5.93
ZZZZZZ	62509	2.59	121039	3.60	195468	4.06	83296	7.52	161882	5.93
ZZZZZZ	60250	2.59	123523	3.60	197059	4.05	85438	7.52	166338	5.93
ZZZZZZ	58525	2.59	123898	3.60	197561	4.05	84921	7.52	164881	5.93
ZZZZZZ	61176	2.59	121960	3.60	195747	4.05	84361	7.52	164742	5.93
JE28915-1MS [c]	82057	2.59	123366	3.60	196494	4.05	82782	7.52	166532	5.93
JE28915-1MSD [c]	79609	2.59	119876	3.60	195897	4.06	82653	7.52	168268	5.93
ZZZZZZ	60105	2.59	120796	3.60	195787	4.05	84285	7.52	162636	5.93
ZZZZZZ	56219	2.59	118421	3.60	193750	4.06	82813	7.52	159929	5.93
ZZZZZZ	54297	2.59	122687	3.60	195102	4.05	83867	7.52	164399	5.93
ZZZZZZ	56500	2.59	118944	3.60	189891	4.05	84784	7.52	163835	5.93
ZZZZZZ	52173	2.59	117175	3.60	189478	4.05	81288	7.52	163750	5.93

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) (pH= 4) Sample is not acid preserved per method/client criteria. Sample analyzed within 3 days holding time as required for acrolein and acrylonitrile. Other compounds within 7 days as required by the method.

Surrogate Recovery Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE28846-1	4A24034.D	91	106	103	110
JE28846-1	4A24033.D	92	105	99	109
JE28846-2	4A23994.D	98	104	102	110
JE28846-4	4A23996.D	97	105	103	110
V4A647-BS	4A23990A.D	94	104	106	107
V4A647-BSD	4A23991.D	92	102	106	107
V4A647-MB	4A23992.D	96	105	102	108
V4A648-BS	4A24026A.D	91	103	102	105
V4A648-BSD	4A24027.D	89	102	105	104
V4A648-MB	4A24028.D	98	103	101	110

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection/Internal Standard Area Summaries
- Isotope Dilution Standard/Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71250A-MB1	2M147111.D	1	02/27/26	AO	02/26/26	OP71250A	E2M6640

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE28846-1, JE28846-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	44%	15-110%
4165-62-2	Phenol-d5	30%	12-110%
118-79-6	2,4,6-Tribromophenol	76%	32-143%
4165-60-0	Nitrobenzene-d5	68%	29-124%
321-60-8	2-Fluorobiphenyl	51%	23-122%
1718-51-0	Terphenyl-d14	68%	22-130%

Instrument Blank

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q542-IBLK	1Q32755.D	1	02/28/26	AM	n/a	n/a	T1Q542

The QC reported here applies to the following samples: **Method:** EPA 1633

JE28846-3, JE28846-1A, JE28846-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	5-130%
	13C5-PFPeA	110%	40-130%
	13C5-PFHxA	110%	40-130%
	13C4-PFHpA	109%	40-130%
	13C8-PFOA	110%	40-130%
	13C9-PFNA	110%	40-130%
	13C6-PFDA	108%	40-130%
	13C7-PFUnDA	108%	30-130%
	13C2-PFDoDA	104%	10-130%
	13C2-PFTeDA	106%	10-130%
	13C3-PFBS	101%	40-135%
	13C3-PFHxS	100%	40-130%
	13C8-PFOS	112%	40-130%
	13C8-FOSA	110%	40-130%
	d3-MeFOSA	104%	10-130%
	d5-EtFOSA	108%	10-130%
	d3-MeFOSAA	114%	40-170%
	d5-EtFOSAA	111%	25-135%
	d7-MeFOSE	110%	10-130%
	d9-EtFOSE	109%	10-130%
	13C2-4:2FTS	119%	40-200%
	13C2-6:2FTS	116%	40-200%
	13C2-8:2FTS	104%	40-300%
	13C3-HFPO-DA	110%	40-130%

Instrument Blank

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q542-ICCB	1Q32775.D	1	03/01/26	AM	n/a	n/a	T1Q542

The QC reported here applies to the following samples: **Method:** EPA 1633

JE28846-3, JE28846-1A, JE28846-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	105%	5-130%
	13C5-PFPeA	109%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	111%	40-130%
	13C8-PFOA	104%	40-130%
	13C9-PFNA	108%	40-130%
	13C6-PFDA	110%	40-130%
	13C7-PFUnDA	113%	30-130%
	13C2-PFDoDA	105%	10-130%
	13C2-PFTeDA	109%	10-130%
	13C3-PFBS	106%	40-135%
	13C3-PFHxS	107%	40-130%
	13C8-PFOS	108%	40-130%
	13C8-FOSA	94%	40-130%
	d3-MeFOSA	101%	10-130%
	d5-EtFOSA	104%	10-130%
	d3-MeFOSAA	103%	40-170%
	d5-EtFOSAA	110%	25-135%
	d7-MeFOSE	100%	10-130%
	d9-EtFOSE	100%	10-130%
	13C2-4:2FTS	134%	40-200%
	13C2-6:2FTS	128%	40-200%
	13C2-8:2FTS	117%	40-300%
	13C3-HFPO-DA	115%	40-130%

Instrument Blank

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q542-ICCB	1Q32784.D	1	03/01/26	AM	n/a	n/a	T1Q542

The QC reported here applies to the following samples: **Method:** EPA 1633

JE28846-3, JE28846-1A, JE28846-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	105%	5-130%
	13C5-PFPeA	108%	40-130%
	13C5-PFHxA	104%	40-130%
	13C4-PFHpA	108%	40-130%
	13C8-PFOA	110%	40-130%
	13C9-PFNA	105%	40-130%
	13C6-PFDA	100%	40-130%
	13C7-PFUnDA	105%	30-130%
	13C2-PFDoDA	105%	10-130%
	13C2-PFTeDA	102%	10-130%
	13C3-PFBS	104%	40-135%
	13C3-PFHxS	102%	40-130%
	13C8-PFOS	94%	40-130%
	13C8-FOSA	96%	40-130%
	d3-MeFOSA	94%	10-130%
	d5-EtFOSA	101%	10-130%
	d3-MeFOSAA	100%	40-170%
	d5-EtFOSAA	99%	25-135%
	d7-MeFOSE	95%	10-130%
	d9-EtFOSE	93%	10-130%
	13C2-4:2FTS	119%	40-200%
	13C2-6:2FTS	116%	40-200%
	13C2-8:2FTS	119%	40-300%
	13C3-HFPO-DA	109%	40-130%

Method Blank Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71294-MB	1Q32760.D	1	02/28/26	AM	02/27/26	OP71294	T1Q542

The QC reported here applies to the following samples: **Method:** EPA 1633

JE28846-3, JE28846-1A, JE28846-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	106%	5-130%
	13C5-PFPeA	109%	40-130%
	13C5-PFHxA	103%	40-130%
	13C4-PFHpA	105%	40-130%
	13C8-PFOA	107%	40-130%
	13C9-PFNA	111%	40-130%
	13C6-PFDA	111%	40-130%
	13C7-PFUnDA	103%	30-130%
	13C2-PFDoDA	100%	10-130%
	13C2-PFTeDA	96%	10-130%
	13C3-PFBS	109%	40-135%
	13C3-PFHxS	108%	40-130%
	13C8-PFOS	103%	40-130%
	13C8-FOSA	97%	40-130%
	d3-MeFOSA	75%	10-130%
	d5-EtFOSA	70%	10-130%
	d3-MeFOSAA	117%	40-170%
	d5-EtFOSAA	101%	25-135%
	d7-MeFOSE	86%	10-130%
	d9-EtFOSE	95%	10-130%
	13C2-4:2FTS	130%	40-200%
	13C2-6:2FTS	135%	40-200%
	13C2-8:2FTS	126%	40-300%
	13C3-HFPO-DA	117%	40-130%

Instrument Blank

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T1Q542-ICCB	1Q32759.D	1	02/28/26	AM	n/a	n/a	T1Q542

The QC reported here applies to the following samples: **Method:** EPA 1633

OP71294-BS, OP71294-LLBS, OP71294-MB

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	5-130%
	13C5-PFPeA	108%	40-130%
	13C5-PFHxA	108%	40-130%
	13C4-PFHpA	107%	40-130%
	13C8-PFOA	105%	40-130%
	13C9-PFNA	108%	40-130%
	13C6-PFDA	112%	40-130%
	13C7-PFUnDA	111%	30-130%
	13C2-PFDoDA	113%	10-130%
	13C2-PFTeDA	112%	10-130%
	13C3-PFBS	102%	40-135%
	13C3-PFHxS	103%	40-130%
	13C8-PFOS	106%	40-130%
	13C8-FOSA	110%	40-130%
	d3-MeFOSA	105%	10-130%
	d5-EtFOSA	108%	10-130%
	d3-MeFOSAA	112%	40-170%
	d5-EtFOSAA	114%	25-135%
	d7-MeFOSE	107%	10-130%
	d9-EtFOSE	111%	10-130%
	13C2-4:2FTS	117%	40-200%
	13C2-6:2FTS	116%	40-200%
	13C2-8:2FTS	106%	40-300%
	13C3-HFPO-DA	110%	40-130%

Blank Spike Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71294-LLBS	1Q32761.D	1	02/28/26	AM	02/27/26	OP71294	T1Q542

The QC reported here applies to the following samples: **Method:** EPA 1633

JE28846-3, JE28846-1A, JE28846-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0034	85	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0033	83	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0034	85	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0042	105	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0036	98	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0037	100	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	106%	5-130%
	13C5-PFPeA	110%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	108%	40-130%
	13C8-PFOA	109%	40-130%
	13C9-PFNA	105%	40-130%
	13C6-PFDA	109%	40-130%
	13C7-PFUnDA	101%	30-130%
	13C2-PFDoDA	91%	10-130%
	13C2-PFTeDA	92%	10-130%
	13C3-PFBS	101%	40-135%
	13C3-PFHxS	108%	40-130%
	13C8-PFOS	97%	40-130%
	13C8-FOSA	93%	40-130%
	d3-MeFOSA	69%	10-130%
	d5-EtFOSA	71%	10-130%
	d3-MeFOSAA	109%	40-170%
	d5-EtFOSAA	95%	25-135%
	d7-MeFOSE	82%	10-130%
	d9-EtFOSE	88%	10-130%
	13C2-4:2FTS	122%	40-200%
	13C2-6:2FTS	136%	40-200%
	13C2-8:2FTS	122%	40-300%
	13C3-HFPO-DA	108%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71294-BS	1Q32762.D	1	02/28/26	AM	02/27/26	OP71294	T1Q542

The QC reported here applies to the following samples: **Method:** EPA 1633

JE28846-3, JE28846-1A, JE28846-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0247	99	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0231	92	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0243	97	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0282	113	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0212	93	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0184	79	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	106%	5-130%
	13C5-PFPeA	111%	40-130%
	13C5-PFHxA	106%	40-130%
	13C4-PFHpA	108%	40-130%
	13C8-PFOA	110%	40-130%
	13C9-PFNA	103%	40-130%
	13C6-PFDA	104%	40-130%
	13C7-PFUnDA	108%	30-130%
	13C2-PFDoDA	103%	10-130%
	13C2-PFTeDA	101%	10-130%
	13C3-PFBS	103%	40-135%
	13C3-PFHxS	101%	40-130%
	13C8-PFOS	119%	40-130%
	13C8-FOSA	103%	40-130%
	d3-MeFOSA	80%	10-130%
	d5-EtFOSA	84%	10-130%
	d3-MeFOSAA	117%	40-170%
	d5-EtFOSAA	102%	25-135%
	d7-MeFOSE	91%	10-130%
	d9-EtFOSE	100%	10-130%
	13C2-4:2FTS	107%	40-200%
	13C2-6:2FTS	110%	40-200%
	13C2-8:2FTS	112%	40-300%
	13C3-HFPO-DA	110%	40-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71250A-BS12	2M147113.D	1	02/27/26	AO	02/26/26	OP71250A	E2M6640
OP71250A-BSD12	2M147114.D	1	02/27/26	AO	02/26/26	OP71250A	E2M6640

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE28846-1, JE28846-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	0.8	0.262	33	0.307	38	16	10-110/40

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	39%	46%	15-110%
4165-62-2	Phenol-d5	27%	32%	12-110%
118-79-6	2,4,6-Tribromophenol	67%	78%	32-143%
4165-60-0	Nitrobenzene-d5	60%	70%	29-124%
321-60-8	2-Fluorobiphenyl	47%	55%	23-122%
1718-51-0	Terphenyl-d14	71%	68%	22-130%

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T1Q542-CC542 **Injection Date:** 02/28/26
Lab File ID: 1Q32757.D **Injection Time:** 20:11
Instrument ID: GCMS1Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	78444	3.20	56073	5.83	104321	7.26	34659	7.81	27518	8.30
Check Std [c]	77333	3.20	51444	5.83	100180	7.26	32385	7.81	25418	8.30
Upper Limit [d]	156888	3.60	112146	6.23	208642	7.66	69318	8.21	55036	8.70
Lower Limit [e]	39222	2.80	28037	5.43	52161	6.86	17330	7.41	13759	7.90

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T1Q542-ICCB	77426	3.20	53596	5.83	99515	7.26	32732	7.81	25104	8.30	1
OP71294-MB	80693	3.20	54913	5.83	103818	7.26	32392	7.80	27904	8.30	1
OP71294-LLBS	76792	3.20	51165	5.83	96080	7.26	31357	7.80	26318	8.30	1
OP71294-BS	72492	3.20	48306	5.83	92008	7.26	32072	7.80	24368	8.30	1
OP71294-DUP	67158	3.20	45326	5.83	86919	7.26	30063	7.80	21931	8.30	1
ZZZZZZ	77275	3.20	53045	5.83	100735	7.26	33324	7.80	26135	8.30	1
ZZZZZZ	75930	3.20	51151	5.83	94968	7.26	31479	7.81	27219	8.30	1
ZZZZZZ	74495	3.20	49700	5.83	97223	7.26	30920	7.80	26685	8.30	1
JE28805-1	62243	3.20	40622	5.83	80482	7.26	25606	7.80	21459	8.30	1
ZZZZZZ	72629	3.20	48104	5.83	93126	7.26	31237	7.80	25291	8.30	1
ZZZZZZ	68952	3.20	47206	5.83	89432	7.26	29805	7.80	22416	8.30	1
ZZZZZZ	75260	3.20	50264	5.83	96918	7.26	30312	7.80	24686	8.30	1
ZZZZZZ	74344	3.20	46980	5.83	93462	7.26	29381	7.80	24497	8.30	1
ZZZZZZ	76322	3.20	50720	5.82	97719	7.26	33705	7.80	27197	8.30	1
ZZZZZZ	71860	3.20	49046	5.83	96042	7.26	29942	7.80	25670	8.30	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q542-ICC542 1Q32750.D 02/28/26 18:29. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T1Q542-CC542	**Injection Date:**	02/28/26
Lab File ID:	1Q32757.D	**Injection Time:**	20:11
Instrument ID:	GCMS1Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	13005	7.40	21003	8.50
Check Std [c]	12415	7.40	20867	8.49
Upper Limit [d]	26010	7.80	42006	8.89
Lower Limit [e]	6503	7.00	10502	8.09

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T1Q542-ICCB	13208	7.40	19913	8.49	1
OP71294-MB	12600	7.40	21509	8.49	1
OP71294-LLBS	11800	7.40	21222	8.49	1
OP71294-BS	12167	7.40	19056	8.49	1
OP71294-DUP	10733	7.40	18328	8.49	1
ZZZZZZ	12166	7.40	20254	8.49	1
ZZZZZZ	11775	7.40	20545	8.49	1
ZZZZZZ	12386	7.40	19557	8.49	1
JE28805-1	9312	7.40	16564	8.49	1
ZZZZZZ	11573	7.40	20234	8.49	1
ZZZZZZ	11178	7.40	19196	8.49	1
ZZZZZZ	12424	7.40	20655	8.49	1
ZZZZZZ	11679	7.40	18821	8.49	1
ZZZZZZ	12722	7.40	21089	8.49	1
ZZZZZZ	12550	7.40	18994	8.49	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q542-ICC542 1Q32750.D 02/28/26 18:29. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T1Q542-CC542 **Injection Date:** 03/01/26
Lab File ID: 1Q32774.D **Injection Time:** 00:21
Instrument ID: GCMS1Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	78444	3.20	56073	5.83	104321	7.26	34659	7.81	27518	8.30
Check Std [c]	78246	3.20	52697	5.83	99642	7.26	32068	7.80	24960	8.30
Upper Limit [d]	156888	3.60	112146	6.23	208642	7.66	69318	8.20	55036	8.70
Lower Limit [e]	39222	2.80	28037	5.43	52161	6.86	17330	7.40	13759	7.90

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T1Q542-ICCB	76116	3.20	51599	5.83	99500	7.26	32710	7.80	25254	8.30	1
ZZZZZZ	63309	3.20	42644	5.82	80593	7.26	25462	7.80	22646	8.30	1
ZZZZZZ	69879	3.20	47211	5.82	92369	7.26	29613	7.80	25908	8.30	1
ZZZZZZ	74230	3.20	48174	5.83	95266	7.26	32773	7.80	24883	8.30	1
JE28846-3	73304	3.20	48186	5.83	91837	7.26	29363	7.80	26213	8.30	1
JE28846-1A	71892	3.20	47946	5.82	90766	7.25	30142	7.80	24021	8.30	1
JE28846-2A	67684	3.20	45683	5.83	86730	7.26	28015	7.80	23042	8.30	1
ZZZZZZ	65864	3.20	44976	5.83	84734	7.26	27913	7.80	23013	8.30	1
T1Q542-ECC542	75782	3.20	54003	5.83	98156	7.26	33933	7.80	25576	8.30	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q542-ICC542 1Q32750.D 02/28/26 18:29. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T1Q542-CC542	**Injection Date:**	03/01/26
Lab File ID:	1Q32774.D	**Injection Time:**	00:21
Instrument ID:	GCMS1Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	13005	7.40	21003	8.50
Check Std [c]	13042	7.40	19970	8.49
Upper Limit [d]	26010	7.80	42006	8.89
Lower Limit [e]	6503	7.00	10502	8.09

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T1Q542-ICCB	11975	7.40	20685	8.49	1
ZZZZZZ	9957	7.40	17760	8.49	1
ZZZZZZ	11508	7.40	18921	8.49	1
ZZZZZZ	11855	7.40	20421	8.49	1
JE28846-3	10767	7.40	19040	8.49	1
JE28846-1A	12550	7.39	18655	8.49	1
JE28846-2A	10489	7.40	16650	8.49	1
ZZZZZZ	11586	7.40	17920	8.49	1
T1Q542-ECC542	12414	7.40	20691	8.49	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T1Q542-ICC542 1Q32750.D 02/28/26 18:29. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Internal Standard Area Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: E2M6640-CC6547 **Injection Date:** 02/27/26
Lab File ID: 2M147105.D **Injection Time:** 08:38
Instrument ID: GCMS2M **Method:** SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	56180	5.79	78806	6.85	128787	8.72	101571	11.34
Upper Limit [a]	112360	6.29	157612	7.35	257574	9.22	203142	11.84
Lower Limit [b]	28090	5.29	39403	6.35	64394	8.22	50786	10.84

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP71281A-MB1	54873	5.79	75485	6.85	130484	8.72	106929	11.34
OP71281A-BS12	59083	5.79	82837	6.85	140784	8.72	113960	11.34
OP71281A-BSD12	64564	5.79	91845	6.85	146940	8.72	112550	11.34
OP71250A-MB1	58310	5.79	81302	6.85	141861	8.72	112051	11.34
ZZZZZZ	52034	5.79	71611	6.85	124270	8.72	103044	11.34
OP71250A-BS12	57413	5.79	80459	6.85	130900	8.72	102235	11.34
OP71250A-BSD12	54186	5.79	76431	6.85	126187	8.72	99515	11.34
ZZZZZZ	58652	5.79	80889	6.85	130865	8.72	104713	11.34
ZZZZZZ	59349	5.79	82427	6.85	138387	8.72	106896	11.34
ZZZZZZ	51575	5.79	69656	6.85	116858	8.72	102215	11.34
ZZZZZZ	58615	5.79	82560	6.85	134476	8.72	101345	11.34
ZZZZZZ	56124	5.79	78245	6.85	128314	8.72	98854	11.34
ZZZZZZ	53133	5.79	72579	6.85	125816	8.72	101356	11.34
ZZZZZZ	59540	5.79	82742	6.85	133225	8.72	99981	11.34
ZZZZZZ	57197	5.79	80452	6.85	132063	8.72	98932	11.34
ZZZZZZ	62276	5.79	85724	6.85	144724	8.72	108246	11.34
ZZZZZZ	59940	5.79	82212	6.85	131653	8.72	100170	11.34
ZZZZZZ	55962	5.79	76458	6.85	111651	8.72	98168	11.34
JE28846-1	54042	5.79	72814	6.85	125604	8.72	102146	11.34
JE28846-2	52500	5.79	72266	6.85	120389	8.72	97691	11.34

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Isotope Dilution Standard Recovery Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE28846-3	1Q32779.D	108	107	109	97	113	99
JE28846-1A	1Q32780.D	111	104	109	104	92	115
JE28846-2A	1Q32781.D	111	108	111	108	120	120
OP71294-BS	1Q32762.D	108	110	103	104	101	119
OP71294-LLBS	1Q32761.D	108	109	105	109	108	97
OP71294-MB	1Q32760.D	105	107	111	111	108	103
T1Q542-IBLK	1Q32755.D	109	110	110	108	100	112
T1Q542-ICCB	1Q32775.D	111	104	108	110	107	108
T1Q542-ICCB	1Q32784.D	108	110	105	100	102	94
T1Q542-ICCB	1Q32759.D	107	105	108	112	103	106

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFHpA	40-130%
S2 = 13C8-PFOA	40-130%
S3 = 13C9-PFNA	40-130%
S4 = 13C6-PFDA	40-130%
S5 = 13C3-PFHxS	40-130%
S6 = 13C8-PFOS	40-130%

Surrogate Recovery Summary

Job Number: JE28846
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JE28846-1	2M147127.D	39	33	39
JE28846-2	2M147128.D	73	59	75
OP71250A-BS12	2M147113.D	60	47	71
OP71250A-BSD122	M147114.D	70	55	68
OP71250A-MB1	2M147111.D	68	51	68

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60392
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 02/26/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	77		
Antimony	6.0	2.8	4.1		
Arsenic	3.0	2.6	2.5		
Barium	200	.2	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.5	4.8		
Boron	100	1.8	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	13	130	7.1	<5000
Cerium	100				
Chromium	10	.7	1.5		
Cobalt	50	.6	2.5		
Copper	10	.7	4.1		
Iron	100	3.3	30	4.2	<100
Lead	3.0	2	2.4		
Lithium	50	1.5	9.1		
Magnesium	5000	25	200	8.3	<5000
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.8	1.8		
Phosphorus	50	7	14		
Potassium	10000	35	200		
Selenium	10	3.6	5.5	1.1	<10
Silicon	200	2.2	130		
Silver	10	.6	2.4		
Sodium	10000	14	900		
Strontium	10	.1	1.6		
Sulfur	50	3.7	18		
Thallium	10	5.2	1.9		
Tin	50	1.4	4.7		
Titanium	10	.8	1.9		
Tungsten	50	1.3	19		
Vanadium	50	.5	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60392
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 02/26/26

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	8.5		
Zirconium	10	.5	4.9		

Associated samples MP60392: JE28846-1, JE28846-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60392
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:		02/26/26				02/26/26			
Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits	BSD Result	Spikelot MP200.7A	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	25700	25000	102.8	85-115	25300	25000	101.2	1.6	20
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	24600	25000	98.4	85-115	25200	25000	100.8	2.4	20
Lead	anr								
Lithium									
Magnesium	25600	25000	102.4	85-115	25600	25000	102.4	0.0	20
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium									
Selenium	2100	2000	105.0	85-115	2080	2000	104.0	1.0	20
Silicon									
Silver	anr								
Sodium									
Strontium									
Sulfur									
Thallium									
Tin	anr								
Titanium	anr								
Tungsten									
Vanadium	anr								

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60392
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 02/26/26 02/26/26

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits	BSD Result	Spikelot MP200.7A % Rec	BSD RPD	QC Limit
Zinc	anr						
Zirconium							

Associated samples MP60392: JE28846-1, JE28846-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60392
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 02/26/26

Metal	JE28839-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	22500	21900	2.4	0-10
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	296	277	6.5	0-10
Lead	anr			
Lithium				
Magnesium	4940	4790	3.0	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium				
Tin	anr			
Titanium	anr			
Tungsten				
Vanadium	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60392
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 02/26/26

Metal	JE28839-1 Original SDL 1:5	%DIF	QC Limits
Zinc	anr		
Zirconium			

Associated samples MP60392: JE28846-1, JE28846-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60395
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 02/26/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88	0.11	<2.0
Arsenic	1.0	.025	.25	0.0076	<1.0
Barium	1.0	.009	.36		
Beryllium	0.50	.005	.065		
Boron	50	.85	18		
Cadmium	0.50	.01	.099	0.020	<0.50
Calcium	250	3.6	35		
Chromium	4.0	.018	.33	0.082	<4.0
Cobalt	0.50	.003	.06		
Copper	4.0	.024	.65	0.14	<4.0
Iron	50	.24	12		
Lead	0.50	.008	.14	0.047	<0.50
Magnesium	250	.19	43		
Manganese	1.0	.012	.38		
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	.26	0.067	<4.0
Potassium	250	.78	43		
Selenium	1.0	.044	.38		
Silver	2.0	.004	.1	0.014	<2.0
Sodium	250	1.5	50		
Strontium	5.0	.014	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7	1.4	<10

Associated samples MP60395: JE28846-1, JE28846-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60395
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date:		02/26/26					02/26/26	
Metal	BSP Result	Spikelot MPX200.8B% Rec	QC Limits	BSD Result	Spikelot MPX200.8B% Rec	BSD RPD	QC Limit	
Aluminum	anr							
Antimony	81.2	80	101.5	85-115	76.9	80	96.1	5.4	20
Arsenic	80.6	80	100.8	85-115	82.2	80	102.8	2.0	20
Barium	anr							
Beryllium	anr							
Boron								
Cadmium	78.6	80	98.3	85-115	77.5	80	96.9	1.4	20
Calcium	anr							
Chromium	79.2	80	99.0	85-115	80.5	80	100.6	1.6	20
Cobalt	anr							
Copper	79.1	80	98.9	85-115	79.7	80	99.6	0.8	20
Iron	anr							
Lead	79.3	80	99.1	85-115	79.6	80	99.5	0.4	20
Magnesium	anr							
Manganese	anr							
Molybdenum								
Nickel	79.5	80	99.4	85-115	79.5	80	99.4	0.0	20
Potassium	anr							
Selenium	anr							
Silver	78.3	80	97.9	85-115	76.4	80	95.5	2.5	20
Sodium	anr							
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	78.4	80	98.0	85-115	80.6	80	100.8	2.8	20

Associated samples MP60395: JE28846-1, JE28846-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60399 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 02/26/26

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.036	.092	0.018	<0.20

Associated samples MP60399: JE28846-1, JE28846-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60399
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date:			02/26/26					02/26/26	
Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.2	2	110.0	85-115	2.1	2	105.0	4.7	

Associated samples MP60399: JE28846-1, JE28846-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JE28846
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP68038/GN79762	2.0	0.0	mg/l	80	82.9	103.6	90-110%
Chromium, Hexavalent	GN79730	0.010	0.0	mg/l	0.150	0.152	101.3	90-110%
Cyanide	GP68034/GN79768	0.010	0.0	mg/l	0.2	0.190	95.0	90-110%
Fluoride	GP68038/GN79762	0.20	0.0	mg/l	2	1.88	94.0	90-110%
HEM Petroleum Hydrocarbons	GP68048/GN79786	5.0	0.0	mg/l	20	19.2	96.0	64-132%
Hardness, Total as CaCO3	GN79804			mg/l	80	78.9	98.6	80-120%
Hardness, Total as CaCO3	GN79804	5.0	0.0	mg/l	160	164	102.5	80-120%
Nitrogen, Ammonia	GP68035/GN79757	0.20	0.0	mg/l	1	1.04	104.0	80-120%
Phenols	GP68057/GN79793	0.20	0.0	mg/l	0.5	0.509	101.8	90-110%
Solids, Total Dissolved	GN79734	10	0.0	mg/l	500	496	99.2	71-110%
Solids, Total Suspended	GN79729	4.0	0.0	mg/l	50	49.6	99.2	84-111%
Sulfate	GP68038/GN79762	2.0	0.0	mg/l	80	82.1	102.6	90-110%
Turbidity	GN79767	0.30	0.13	NTU	20	19.9	99.5	90-110%

Associated Samples:
Batch GN79729: JE28846-1, JE28846-2
Batch GN79730: JE28846-1, JE28846-2
Batch GN79734: JE28846-1, JE28846-2
Batch GN79767: JE28846-1, JE28846-2
Batch GN79804: JE28846-1, JE28846-2
Batch GP68034: JE28846-1, JE28846-2
Batch GP68035: JE28846-1, JE28846-2
Batch GP68038: JE28846-1, JE28846-2
Batch GP68048: JE28846-2
Batch GP68057: JE28846-1, JE28846-2
(*) Outside of QC limits

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE29960

Sampling Date: 03/13/26



Report to:

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ATTN: Cullen Bryant

Total number of pages in report: 73

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Brittany Stacks 732-329-0200
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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE29960

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JE29960-1	03/13/26	11:40	CB	03/13/26	AQ	Influent	INFLUENT
JE29960-1A	03/13/26	11:40	CB	03/13/26	AQ	Influent	INFLUENT
JE29960-2	03/13/26	11:55	CB	03/13/26	AQ	Effluent	EFFLUENT
JE29960-2A	03/13/26	11:55	CB	03/13/26	AQ	Effluent	EFFLUENT
JE29960-3	03/13/26	11:30	CB	03/13/26	AQ	Water	MID
JE29960-4	03/13/26	11:55	CB	03/13/26	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech **Job No:** JE29960

Site: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA **Report Date** 3/27/2026 2:40:01 PM

On 03/13/2026, 3 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of -0.8 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE29960 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V4A665

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP71905

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP71687A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP60698

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE29960-1SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Iron are outside control limits for sample MP60698-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP60695

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP60710

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP68469

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 180.1

Matrix: AQ **Batch ID:** GN80417

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP68558

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP68522

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 420.4/LACHAT

Matrix: AQ **Batch ID:** GP68532

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2340 C-11/21

Matrix: AQ **Batch ID:** GN80441

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- The blank spike (BS) recovery(s) of Hardness, Total as CaCO3 are outside control limits.

General Chemistry By Method SM2540 C-15/20

Matrix:	AQ	Batch ID:	GN80541

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 D-15/20

Matrix:	AQ	Batch ID:	GN80539

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM4500NH3 H-11/21LAC

Matrix:	AQ	Batch ID:	GP68527

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SW846 6010/7196A M

Matrix:	AQ	Batch ID:	R222211

- The data for SW846 6010/7196A M meets quality control requirements.
- JE29960-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix:	AQ	Batch ID:	R222212

- The data for SW846 6010/7196A M meets quality control requirements.
- JE29960-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

General Chemistry By Method SW846 7196A

Matrix:	AQ	Batch ID:	GN80426

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE29960
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 03/13/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE29960-1	**INFLUENT**					
1,1-Dichloroethane		4.1	1.0	0.42	ug/l	EPA 624.1
1,1-Dichloroethene		17.2	1.0	0.45	ug/l	EPA 624.1
cis-1,2-Dichloroethene		1.3	1.0	0.51	ug/l	EPA 624.1
Tetrachloroethene		178	1.0	0.41	ug/l	EPA 624.1
1,1,1-Trichloroethane		69.1	1.0	0.43	ug/l	EPA 624.1
Trichloroethene		5.2	1.0	0.43	ug/l	EPA 624.1
Calcium		235000	25000	630	ug/l	EPA 200.7
Chromium		1.4 J	4.0	0.33	ug/l	EPA 200.8
Copper		1.5 J	4.0	0.65	ug/l	EPA 200.8
Iron		38.6 J	100	30	ug/l	EPA 200.7
Lead		0.28 J	0.50	0.14	ug/l	EPA 200.8
Magnesium		77600	5000	200	ug/l	EPA 200.7
Nickel		0.74 J	4.0	0.26	ug/l	EPA 200.8
Silver		0.20 J	2.0	0.10	ug/l	EPA 200.8
Chloride		648	6.0	2.5	mg/l	EPA 300/SW846 9056A
Chromium, Hexavalent		0.0032 J	0.010	0.0026	mg/l	SW846 7196A
Hardness, Total as CaCO3		879	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		2130	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended		1.2 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.24 J	0.30	0.034	NTU	EPA 180.1
JE29960-1A	**INFLUENT**					
Perfluoroheptanoic acid		0.0374	0.0020	0.00050	ug/l	EPA 1633
Perfluorooctanoic acid		0.0810	0.0020	0.00076	ug/l	EPA 1633
Perfluorononanoic acid		0.0712	0.0020	0.00040	ug/l	EPA 1633
Perfluorodecanoic acid		0.0355	0.0020	0.00062	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0040	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0294	0.0020	0.00043	ug/l	EPA 1633
JE29960-2	**EFFLUENT**					
Calcium		226000	10000	250	ug/l	EPA 200.7
Chromium		1.0 J	4.0	0.33	ug/l	EPA 200.8
Copper		0.66 J	4.0	0.65	ug/l	EPA 200.8
Magnesium		76500	5000	200	ug/l	EPA 200.7
Nickel		0.65 J	4.0	0.26	ug/l	EPA 200.8
Chloride		681	6.0	2.5	mg/l	EPA 300/SW846 9056A
Chromium, Hexavalent		0.0032 J	0.010	0.0026	mg/l	SW846 7196A
Hardness, Total as CaCO3		884	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		2140	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended		1.8 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.25 J	0.30	0.034	NTU	EPA 180.1

Summary of Hits

Job Number: JE29960
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 03/13/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE29960-2A	**EFFLUENT**					
Perfluoroheptanoic acid		0.0252	0.0021	0.00052	ug/l	EPA 1633
Perfluorooctanoic acid		0.0543	0.0021	0.00078	ug/l	EPA 1633
Perfluorononanoic acid		0.0407	0.0021	0.00041	ug/l	EPA 1633
Perfluorodecanoic acid		0.0175	0.0021	0.00064	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0029	0.0021	0.0012	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0151	0.0021	0.00045	ug/l	EPA 1633
JE29960-3	**MID**					
Perfluoroheptanoic acid		0.0270	0.0021	0.00052	ug/l	EPA 1633
Perfluorooctanoic acid		0.0615	0.0021	0.00078	ug/l	EPA 1633
Perfluorononanoic acid		0.0540	0.0021	0.00042	ug/l	EPA 1633
Perfluorodecanoic acid		0.0258	0.0021	0.00065	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0031	0.0021	0.0012	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0198	0.0021	0.00045	ug/l	EPA 1633
JE29960-4	**TRIP BLANK**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE29960-1	**Date Sampled:**	03/13/26
Matrix:	AQ - Influent	**Date Received:**	03/13/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4A24585.D	1	03/17/26 17:37	NW	n/a	n/a	V4A665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	4.1	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	17.2	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.3	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	178	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	69.1	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	5.2	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94%		80-128%
2037-26-5	Toluene-D8 (SUR)	105%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	99%		79-117%
1868-53-7	Dibromofluoromethane (S)	111%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE29960-1
Matrix: AQ - Influent
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/13/26
Date Received: 03/13/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z178659.D	1	03/17/26 20:06	AC	03/16/26 08:00	OP71687A	EZ8781
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		29-124%
321-60-8	2-Fluorobiphenyl	53%		23-122%
1718-51-0	Terphenyl-d14	69%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE29960-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/13/26
Date Received: 03/13/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [4]	EPA 200.8 [5]
Arsenic	0.25 U	1.0	0.25	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Cadmium	0.099 U	0.50	0.099	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Calcium	235000	25000	630	ug/l	5	03/15/26	03/15/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Chromium	1.4 J	4.0	0.33	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Copper	1.5 J	4.0	0.65	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Iron	38.6 J	100	30	ug/l	1	03/15/26	03/15/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Lead	0.28 J	0.50	0.14	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Magnesium	77600	5000	200	ug/l	1	03/15/26	03/15/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	03/16/26	03/16/26	MK	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	0.74 J	4.0	0.26	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Selenium	5.5 U	10	5.5	ug/l	1	03/15/26	03/15/26	LM	EPA 200.7 [2]	EPA 200.7 [6]
Silver	0.20 J	2.0	0.10	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]
Zinc	3.7 U	10	3.7	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [5]

(1) Instrument QC Batch: MA60441
(2) Instrument QC Batch: MA60444
(3) Instrument QC Batch: MA60446
(4) Instrument QC Batch: MA60455
(5) Prep QC Batch: MP60695
(6) Prep QC Batch: MP60698
(7) Prep QC Batch: MP60710

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE29960-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/13/26
Date Received: 03/13/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	648	6.0	2.5	mg/l	3	03/19/26 11:29	SS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0032 J	0.010	0.0026	mg/l	1	03/14/26 10:07	CP	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	03/17/26 03:05	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	03/17/26 20:50	JD	EPA 335.4/LACHAT
Hardness, Total as CaCO3	879	5.0	3.9	mg/l	1	03/15/26 16:44	MAZ	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	03/17/26 19:23	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	03/18/26 16:12	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	2130	10	6.0	mg/l	1	03/18/26 18:00	SD	SM2540 C-15/20
Solids, Total Suspended	1.2 J	4.0	0.90	mg/l	1	03/18/26 13:30	SD	SM2540 D-15/20
Turbidity	0.24 J	0.30	0.034	NTU	1	03/14/26 11:08	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE29960-1A	**Date Sampled:**	03/13/26
Matrix:	AQ - Influent	**Date Received:**	03/13/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42335.D	1	03/25/26 20:34	AM	03/24/26 18:00	OP71905	T2Q557
Run #2							

	Initial Volume	Final Volume
Run #1	496 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0374	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.0810	0.0020	0.00076	ug/l	
375-95-1	Perfluorononanoic acid	0.0712	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	0.0355	0.0020	0.00062	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0040	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0294	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	82%		40-130%
	13C8-PFOA	90%		40-130%
	13C9-PFNA	86%		40-130%
	13C6-PFDA	80%		40-130%
	13C3-PFHxS	87%		40-130%
	13C8-PFOS	81%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE29960-2	**Date Sampled:**	03/13/26
Matrix:	AQ - Effluent	**Date Received:**	03/13/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4A24591.D	1	03/17/26 20:15	NW	n/a	n/a	V4A665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95%		80-128%
2037-26-5	Toluene-D8 (SUR)	105%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%		79-117%
1868-53-7	Dibromofluoromethane (S)	113%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE29960-2	**Date Sampled:**	03/13/26
Matrix:	AQ - Effluent	**Date Received:**	03/13/26
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z178660.D	1	03/17/26 20:32	AC	03/16/26 08:00	OP71687A	EZ8781
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		29-124%
321-60-8	2-Fluorobiphenyl	60%		23-122%
1718-51-0	Terphenyl-d14	76%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE29960-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/13/26
Date Received: 03/13/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [5]	EPA 200.8 [6]
Arsenic	0.25 U	1.0	0.25	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]
Cadmium	0.099 U	0.50	0.099	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]
Calcium	226000	10000	250	ug/l	2	03/15/26	03/17/26	LM	EPA 200.7 [4]	EPA 200.7 [7]
Chromium	1.0 J	4.0	0.33	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]
Copper	0.66 J	4.0	0.65	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]
Iron	30 U	100	30	ug/l	1	03/15/26	03/15/26	LM	EPA 200.7 [2]	EPA 200.7 [7]
Lead	0.14 U	0.50	0.14	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]
Magnesium	76500	5000	200	ug/l	1	03/15/26	03/15/26	LM	EPA 200.7 [2]	EPA 200.7 [7]
Mercury	0.092 U	0.20	0.092	ug/l	1	03/16/26	03/16/26	MK	EPA 245.1 [1]	EPA 245.1 [8]
Nickel	0.65 J	4.0	0.26	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]
Selenium	5.5 U	10	5.5	ug/l	1	03/15/26	03/15/26	LM	EPA 200.7 [2]	EPA 200.7 [7]
Silver	0.10 U	2.0	0.10	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]
Zinc	3.7 U	10	3.7	ug/l	1	03/15/26	03/17/26	NV	EPA 200.8 [3]	EPA 200.8 [6]

(1) Instrument QC Batch: MA60441
(2) Instrument QC Batch: MA60444
(3) Instrument QC Batch: MA60446
(4) Instrument QC Batch: MA60454
(5) Instrument QC Batch: MA60455
(6) Prep QC Batch: MP60695
(7) Prep QC Batch: MP60698
(8) Prep QC Batch: MP60710

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE29960-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/13/26
Date Received: 03/13/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	681	6.0	2.5	mg/l	3	03/19/26 11:42	SS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0032 J	0.010	0.0026	mg/l	1	03/14/26 10:08	CP	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	03/17/26 03:46	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	03/17/26 20:51	JD	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbons	0.86 U	5.0	0.86	mg/l	1	03/16/26 11:30	SS	EPA 1664A
Hardness, Total as CaCO3	884	5.0	3.9	mg/l	1	03/15/26 16:44	MAZ	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	03/17/26 19:24	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	03/18/26 16:13	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	2140	10	6.0	mg/l	1	03/18/26 18:00	SD	SM2540 C-15/20
Solids, Total Suspended	1.8 J	4.0	0.90	mg/l	1	03/18/26 13:30	SD	SM2540 D-15/20
Turbidity	0.25 J	0.30	0.034	NTU	1	03/14/26 11:08	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE29960-2A	**Date Sampled:**	03/13/26
Matrix:	AQ - Effluent	**Date Received:**	03/13/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42336.D	1	03/25/26 20:49	AM	03/24/26 18:00	OP71905	T2Q557
Run #2							

	Initial Volume	Final Volume
Run #1	482 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0252	0.0021	0.00052	ug/l	
335-67-1	Perfluorooctanoic acid	0.0543	0.0021	0.00078	ug/l	
375-95-1	Perfluorononanoic acid	0.0407	0.0021	0.00041	ug/l	
335-76-2	Perfluorodecanoic acid	0.0175	0.0021	0.00064	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0029	0.0021	0.0012	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0151	0.0021	0.00045	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	86%		40-130%
	13C8-PFOA	81%		40-130%
	13C9-PFNA	90%		40-130%
	13C6-PFDA	83%		40-130%
	13C3-PFHxS	82%		40-130%
	13C8-PFOS	81%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MID		
Lab Sample ID:	JE29960-3	**Date Sampled:**	03/13/26
Matrix:	AQ - Water	**Date Received:**	03/13/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q6732.D	1	03/26/26 13:14	VL	03/24/26 18:00	OP71905	T6Q301
Run #2							

	Initial Volume	Final Volume
Run #1	479 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0270	0.0021	0.00052	ug/l	
335-67-1	Perfluorooctanoic acid	0.0615	0.0021	0.00078	ug/l	
375-95-1	Perfluorononanoic acid	0.0540	0.0021	0.00042	ug/l	
335-76-2	Perfluorodecanoic acid	0.0258	0.0021	0.00065	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0031	0.0021	0.0012	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0198	0.0021	0.00045	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	81%		40-130%
	13C8-PFOA	82%		40-130%
	13C9-PFNA	81%		40-130%
	13C6-PFDA	74%		40-130%
	13C3-PFHxS	80%		40-130%
	13C8-PFOS	78%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE29960-4	**Date Sampled:**	03/13/26
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/13/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4A24588.D	1	03/17/26 18:56	NW	n/a	n/a	V4A665
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	95%		80-128%
2037-26-5	Toluene-D8 (SUR)	104%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%		79-117%
1868-53-7	Dibromofluoromethane (S)	113%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certification Exceptions

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		**SW846 6010/7196A M**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

SGS

EHSA-QAC-0023-04-FORM-Standard COC

WW
TB

CHAIN OF CUSTODY

PREM

E

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #: -
Bottle Order Control #: PREMTF-022526-179
SGS Quote #:
SGS Job #: JE29960

Client / Reporting Information	Project Information	Requested Analysis	Matrix Codes
Company Name: Tetra Tech Inc.	Project Name: HVEC - Burlington 3VDG		
Street Address: 100 Nickerson Road	Street: 3 Van DeGraff Dr	Billing Information (if different from Report to)	
City / State / Zip: Marlborough, MA 01752	City / State: Burlington MA	Company Name	
Project Contact / E-mail: Cullen Bryant / cullen.bryant@tetratech.com	Project #: 117-367085-25001	Street Address	
Phone #: 857.272.3511	Client Purchase Order #	City / State / Zip	
Sampler(s) Name(s) / Phone #:	Project Manager: Cullen Bryant	Attention:	

Requested Analysis: AMN; CHL, XCR, TURB, TDS, CR3R; PN; TSS; V824SL1; BLV8270SIM14DIOX; CN; AGMS,ASMS,CA,CDMS,CRMS,CUMS,FE,HG,HRD,MG,NIMS,PBMS,SBMS,SE,ZNMS; PHC1664; LCID1633MA6

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection: Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of bottles: HCl	NaOH+ASC	HNO_3	H_2SO_4	NONE	DI Water	MEOH	EnCore	pH Check (Lab Use Only)	LAB USE ONLY
1	INFLUENT		3-13-26	11:40	CB	G	N	WW	17	2	1	1	2	9				1 2 1 2 4 2 1 1 3	
2	EFFLUENT		3-13-26	11:55	CB	G	N	WW	17	6	1	1	2	9				1 2 1 2 4 2 1 1 2 3	
3	MID		3-13-26	11:30	CB	G	N	WW	3					3				3	
4	TRIP BLANK		3-13-26			G		DI	2	2								2	

Initial Assessment MR 3/13
Label Verification

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [x] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

#250218270

SGS Courier

3/13/26 1730

SGS Service Center
Northborough, MA

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	Cullen Bryant	3-13-26 12:30	Will	2	3/13/26 16:10	2
3		3/13/26 23:20		4		4
5			5	Custody Seal #	Intact / Not Intact / Absent	Therm ID: / See Sample Receipt Summary

Cooler Temp. °C: 0.2, 0.4

JE29960: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE29960 **Client:** TETRA TECH **Project:** HVEC - MONTHLY RGP , 3 VAN DE GRA

Date / Time Received: 3/13/2026 12:30:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (0.2); Cooler 2: (0.4);

Cooler Temps (Corrected) °C: Cooler 1: (-0.8); Cooler 2: (-0.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE29960
Project Location:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE29960-1,JE29960-1A,JE29960-2,JE29960-2A,JE29960-3,JE29960-4

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC (X) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

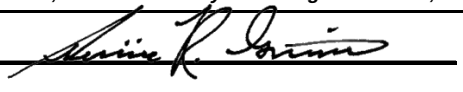
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **27-Mar-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE29960

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE29960-1	Collected: 13-MAR-26 11:40 By: CB		Received: 13-MAR-26 By: JW			
INFLUENT						
JE29960-1	SW846 7196A	14-MAR-26 10:07	CP			XCR
JE29960-1	EPA 180.1	14-MAR-26 11:08	DB			TURB
JE29960-1	SM2340 C-11/21	15-MAR-26 16:44	MAZ			HRD
JE29960-1	EPA 200.7	15-MAR-26 18:53	LM	15-MAR-26	HT	FE,MG,SE
JE29960-1	EPA 200.7	15-MAR-26 19:31	LM	15-MAR-26	HT	CA
JE29960-1	EPA 245.1	16-MAR-26 13:11	MK	16-MAR-26	MK	HG
JE29960-1	EPA 200.8	17-MAR-26 03:05	NV	15-MAR-26	HT	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,ZNMS
JE29960-1	SW846 6010/7196A M	17-MAR-26 03:05	NV			CR3R
JE29960-1	EPA 200.8	17-MAR-26 11:00	NV	15-MAR-26	HT	SBMS
JE29960-1	EPA 624.1	17-MAR-26 17:37	NW			V624SL1
JE29960-1	SM4500NH3 H-11/21LAC	17-MAR-26 19:23	JD	17-MAR-26	JD	AMN
JE29960-1	SW846 8270E BY SIM	17-MAR-26 20:06	AC	16-MAR-26	AM	BLV8270SIM14DIOX
JE29960-1	EPA 335.4/LACHAT	17-MAR-26 20:50	JD	17-MAR-26	KG	CN
JE29960-1	SM2540 D-15/20	18-MAR-26 13:30	SD			TSS
JE29960-1	EPA 420.4/LACHAT	18-MAR-26 16:12	JD	18-MAR-26	KG	PN
JE29960-1	SM2540 C-15/20	18-MAR-26 18:00	SD			TDS
JE29960-1	EPA 300/SW846 9056A	19-MAR-26 11:29	SS	18-MAR-26	SS	CHL
JE29960-2	Collected: 13-MAR-26 11:55 By: CB		Received: 13-MAR-26 By: JW			
EFFLUENT						
JE29960-2	SW846 7196A	14-MAR-26 10:08	CP			XCR
JE29960-2	EPA 180.1	14-MAR-26 11:08	DB			TURB
JE29960-2	SM2340 C-11/21	15-MAR-26 16:44	MAZ			HRD
JE29960-2	EPA 200.7	15-MAR-26 19:17	LM	15-MAR-26	HT	FE,MG,SE
JE29960-2	EPA 1664A	16-MAR-26 11:30	SS	16-MAR-26	SS	PHC1664
JE29960-2	EPA 245.1	16-MAR-26 13:14	MK	16-MAR-26	MK	HG
JE29960-2	EPA 200.8	17-MAR-26 03:46	NV	15-MAR-26	HT	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,ZNMS
JE29960-2	SW846 6010/7196A M	17-MAR-26 03:46	NV			CR3R
JE29960-2	EPA 200.8	17-MAR-26 11:11	NV	15-MAR-26	HT	SBMS
JE29960-2	SM4500NH3 H-11/21LAC	17-MAR-26 19:24	JD	17-MAR-26	JD	AMN
JE29960-2	EPA 200.7	17-MAR-26 20:11	LM	15-MAR-26	HT	CA
JE29960-2	EPA 624.1	17-MAR-26 20:15	NW			V624SL1
JE29960-2	SW846 8270E BY SIM	17-MAR-26 20:32	AC	16-MAR-26	AM	BLV8270SIM14DIOX
JE29960-2	EPA 335.4/LACHAT	17-MAR-26 20:51	JD	17-MAR-26	KG	CN

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE29960

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE29960-2	SM2540 D-15/20	18-MAR-26 13:30	SD			TSS
JE29960-2	EPA 420.4/LACHAT	18-MAR-26 16:13	JD	18-MAR-26	KG	PN
JE29960-2	SM2540 C-15/20	18-MAR-26 18:00	SD			TDS
JE29960-2	EPA 300/SW846 9056A	19-MAR-26 11:42	SS	18-MAR-26	SS	CHL
JE29960-3	Collected: 13-MAR-26 11:30 By: CB MID		Received: 13-MAR-26 By: JW			
JE29960-3	EPA 1633	26-MAR-26 13:14	VL	24-MAR-26	FS	LCID1633MA6
JE29960-4	Collected: 13-MAR-26 11:55 By: CB TRIP BLANK		Received: 13-MAR-26 By: JW			
JE29960-4	EPA 624.1	17-MAR-26 18:56	NW			V624SL1
JE29960-1A	Collected: 13-MAR-26 11:40 By: CB INFLUENT		Received: 13-MAR-26 By: JW			
JE29960-1A	EPA 1633	25-MAR-26 20:34	AM	24-MAR-26	FS	LCID1633MA6
JE29960-2A	Collected: 13-MAR-26 11:55 By: CB EFFLUENT		Received: 13-MAR-26 By: JW			
JE29960-2A	EPA 1633	25-MAR-26 20:49	AM	24-MAR-26	FS	LCID1633MA6

QC Evaluation: MA MCP Limits

Job Number: JE29960
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 03/13/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP71687A	SW846 8270E BY SIM						
OP71687A-BS12	123-91-1	1,4-Dioxane	BSP	REC	45	%	40-140
OP71687A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	64	%	30-130
OP71687A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	46	%	30-130
OP71687A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	73	%	30-130
OP71687A-BSD12	123-91-1	1,4-Dioxane	BSD	REC	42	%	40-140
OP71687A-BSD12	123-91-1	1,4-Dioxane	BSD	RPD	5	%	30
OP71687A-BSD12	4165-60-0	Nitrobenzene-d5	BSD	SURR	59	%	30-130
OP71687A-BSD12	321-60-8	2-Fluorobiphenyl	BSD	SURR	42	%	30-130
OP71687A-BSD12	1718-51-0	Terphenyl-d14	BSD	SURR	70	%	30-130
OP71687A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	66	%	30-130
OP71687A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	50	%	30-130
OP71687A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	77	%	30-130
JE29960-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	62	%	30-130
JE29960-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JE29960-1	1718-51-0	Terphenyl-d14	SAMP	SURR	69	%	30-130
JE29960-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	30-130
JE29960-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	60	%	30-130
JE29960-2	1718-51-0	Terphenyl-d14	SAMP	SURR	76	%	30-130

* Sample used for QC is not from job JE29960

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4A665-MB	4A24573.D	1	03/17/26	NW	n/a	n/a	V4A665

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE29960-1, JE29960-2, JE29960-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%	80-128%
2037-26-5	Toluene-D8 (SUR)	105%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	102%	79-117%
1868-53-7	Dibromofluoromethane (S)	112%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4A665-BS	4A24571A.D	1	03/17/26	NW	n/a	n/a	V4A665
V4A665-BSD	4A24572.D	1	03/17/26	NW	n/a	n/a	V4A665

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE29960-1, JE29960-2, JE29960-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	83.4	104	88.2	110	6	26-198/39
71-43-2	Benzene	20	19.3	97	18.8	94	3	65-135/11
56-23-5	Carbon tetrachloride	20	19.3	97	19.3	97	0	70-130/13
95-50-1	1,2-Dichlorobenzene	20	20.2	101	20.0	100	1	65-135/12
541-73-1	1,3-Dichlorobenzene	20	19.1	96	19.2	96	1	70-130/12
106-46-7	1,4-Dichlorobenzene	20	19.5	98	19.6	98	1	65-135/12
75-34-3	1,1-Dichloroethane	20	20.3	102	19.9	100	2	70-130/12
107-06-2	1,2-Dichloroethane	20	17.0	85	16.2	81	5	70-130/11
75-35-4	1,1-Dichloroethene	20	19.2	96	19.0	95	1	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	21.4	107	21.0	105	2	72-116/12
100-41-4	Ethylbenzene	20	18.9	95	18.7	94	1	60-140/11
75-09-2	Methylene chloride	20	19.8	99	19.4	97	2	60-140/14
127-18-4	Tetrachloroethene	20	19.2	96	19.0	95	1	70-130/18
108-88-3	Toluene	20	19.2	96	18.9	95	2	70-130/13
71-55-6	1,1,1-Trichloroethane	20	18.7	94	17.8	89	5	70-130/12
79-00-5	1,1,2-Trichloroethane	20	21.4	107	20.7	104	3	70-130/14
79-01-6	Trichloroethene	20	18.5	93	17.7	89	4	65-135/13
75-01-4	Vinyl chloride	20	19.6	98	19.5	98	1	50-150/14
	m,p-Xylene	40	38.4	96	38.2	96	1	78-115/11
95-47-6	o-Xylene	20	18.7	94	19.1	96	2	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	93%	91%	80-128%
2037-26-5	Toluene-D8 (SUR)	103%	104%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	103%	102%	79-117%
1868-53-7	Dibromofluoromethane (S)	107%	108%	84-121%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: V4A665-CC610 **Injection Date:** 03/17/26
Lab File ID: 4A24571.D **Injection Time:** 11:02
Instrument ID: GCMS4A **Method:** EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	67410	2.59	119051	3.60	197762	4.05	81126	7.52	164656	5.93
Upper Limit [a]	134820	3.09	238102	4.10	395524	4.55	162252	8.02	329312	6.43
Lower Limit [b]	33705	2.09	59526	3.10	98881	3.55	40563	7.02	82328	5.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4A665-BS	67410	2.59	119051	3.60	197762	4.05	81126	7.52	164656	5.93
V4A665-BSD	67271	2.59	120419	3.60	201449	4.05	81800	7.52	166373	5.93
V4A665-MB	61621	2.59	124414	3.60	202066	4.05	85455	7.52	166138	5.93
ZZZZZZ	55337	2.59	119777	3.60	195695	4.06	82028	7.52	162342	5.93
ZZZZZZ	53589	2.59	119631	3.60	194384	4.05	80532	7.52	164895	5.93
ZZZZZZ	55523	2.59	120627	3.60	195288	4.06	83248	7.52	162814	5.93
ZZZZZZ	67131	2.61	116321	3.60	201117	4.05	81245	7.52	164941	5.93
ZZZZZZ	62612	2.59	123831	3.60	203301	4.06	85964	7.52	168902	5.93
ZZZZZZ	60301	2.59	117797	3.60	194830	4.05	84166	7.52	163939	5.93
ZZZZZZ	61617	2.59	123515	3.60	199436	4.05	85781	7.52	166366	5.93
JE30069-2MS	67416	2.60	121997	3.60	199801	4.06	79968	7.52	169069	5.93
JE30069-2MSD	66414	2.59	122569	3.60	197573	4.06	81195	7.52	168672	5.93
ZZZZZZ	60549	2.59	123259	3.60	199051	4.05	84904	7.52	167091	5.93
JE29960-1	64659	2.59	122161	3.60	200336	4.06	86333	7.52	165615	5.93
JE30069-2	56908	2.59	120614	3.60	196449	4.05	85134	7.52	166741	5.93
ZZZZZZ	57671	2.59	121740	3.60	197634	4.05	84242	7.52	167573	5.93
JE29960-4	56030	2.59	121256	3.60	193846	4.05	84178	7.52	163832	5.93
ZZZZZZ	58696	2.59	119275	3.60	196664	4.05	84623	7.52	164255	5.93
JE29960-2	55711	2.59	121424	3.60	196574	4.05	83268	7.52	161792	5.93
ZZZZZZ	52913	2.59	116624	3.60	192353	4.05	83447	7.52	162190	5.93
ZZZZZZ	56880	2.59	119028	3.60	194915	4.06	81974	7.52	163100	5.93
ZZZZZZ	49745	2.59	117201	3.60	191823	4.05	78227	7.52	156352	5.93
JE30069-2	55035	2.59	121954	3.60	193888	4.05	83018	7.52	164166	5.93

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE29960-1	4A24585.D	94	105	99	111
JE29960-2	4A24591.D	95	105	101	113
JE29960-4	4A24588.D	95	104	101	113
V4A665-BS	4A24571A.D	93	103	103	107
V4A665-BSD	4A24572.D	91	104	102	108
V4A665-MB	4A24573.D	97	105	102	112

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection/Internal Standard Area Summaries
- Isotope Dilution Standard/Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71687A-MB1	Z178624.D	1	03/16/26	AC	03/16/26	OP71687A	EZ8780

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE29960-1, JE29960-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	15-110%
4165-62-2	Phenol-d5	39%	12-110%
118-79-6	2,4,6-Tribromophenol	88%	32-143%
4165-60-0	Nitrobenzene-d5	66%	29-124%
321-60-8	2-Fluorobiphenyl	50%	23-122%
1718-51-0	Terphenyl-d14	77%	22-130%

Instrument Blank

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q552-IBLK	2Q42144.D	1	03/19/26	AM	n/a	n/a	T2Q552

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-1A, JE29960-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	94%	5-130%
	13C5-PFPeA	97%	40-130%
	13C5-PFHxA	96%	40-130%
	13C4-PFHpA	93%	40-130%
	13C8-PFOA	97%	40-130%
	13C9-PFNA	93%	40-130%
	13C6-PFDA	100%	40-130%
	13C7-PFUnDA	106%	30-130%
	13C2-PFDoDA	101%	10-130%
	13C2-PFTeDA	106%	10-130%
	13C3-PFBS	96%	40-135%
	13C3-PFHxS	98%	40-130%
	13C8-PFOS	93%	40-130%
	13C8-FOSA	92%	40-130%
	d3-MeFOSA	97%	10-130%
	d5-EtFOSA	95%	10-130%
	d3-MeFOSAA	97%	40-170%
	d5-EtFOSAA	97%	25-135%
	d7-MeFOSE	96%	10-130%
	d9-EtFOSE	99%	10-130%
	13C2-4:2FTS	123%	40-200%
	13C2-6:2FTS	114%	40-200%
	13C2-8:2FTS	109%	40-300%
	13C3-HFPO-DA	91%	40-130%

Instrument Blank

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q557-IBLK	2Q42322.D	1	03/25/26	AM	n/a	n/a	T2Q557

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-1A, JE29960-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	95%	5-130%
	13C5-PFPeA	94%	40-130%
	13C5-PFHxA	94%	40-130%
	13C4-PFHpA	91%	40-130%
	13C8-PFOA	96%	40-130%
	13C9-PFNA	99%	40-130%
	13C6-PFDA	96%	40-130%
	13C7-PFUnDA	103%	30-130%
	13C2-PFDoDA	95%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	89%	40-135%
	13C3-PFHxS	95%	40-130%
	13C8-PFOS	94%	40-130%
	13C8-FOSA	82%	40-130%
	d3-MeFOSA	89%	10-130%
	d5-EtFOSA	90%	10-130%
	d3-MeFOSAA	86%	40-170%
	d5-EtFOSAA	86%	25-135%
	d7-MeFOSE	93%	10-130%
	d9-EtFOSE	95%	10-130%
	13C2-4:2FTS	113%	40-200%
	13C2-6:2FTS	98%	40-200%
	13C2-8:2FTS	101%	40-300%
	13C3-HFPO-DA	99%	40-130%

Instrument Blank

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q300-IBLK	6Q6717.D	1	03/25/26	AM	n/a	n/a	T6Q300

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	91%	5-130%
	13C5-PFPeA	91%	40-130%
	13C5-PFHxA	90%	40-130%
	13C4-PFHpA	90%	40-130%
	13C8-PFOA	91%	40-130%
	13C9-PFNA	94%	40-130%
	13C6-PFDA	93%	40-130%
	13C7-PFUnDA	93%	30-130%
	13C2-PFDoDA	91%	10-130%
	13C2-PFTeDA	91%	10-130%
	13C3-PFBS	91%	40-135%
	13C3-PFHxS	88%	40-130%
	13C8-PFOS	88%	40-130%
	13C8-FOSA	90%	40-130%
	d3-MeFOSA	89%	10-130%
	d5-EtFOSA	91%	10-130%
	d3-MeFOSAA	94%	40-170%
	d5-EtFOSAA	90%	25-135%
	d7-MeFOSE	91%	10-130%
	d9-EtFOSE	93%	10-130%
	13C2-4:2FTS	112%	40-200%
	13C2-6:2FTS	102%	40-200%
	13C2-8:2FTS	103%	40-300%
	13C3-HFPO-DA	92%	40-130%

Instrument Blank

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q301-IBLK	6Q6727.D	1	03/26/26	VL	n/a	n/a	T6Q301

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	91%	5-130%
	13C5-PFPeA	93%	40-130%
	13C5-PFHxA	93%	40-130%
	13C4-PFHpA	91%	40-130%
	13C8-PFOA	91%	40-130%
	13C9-PFNA	92%	40-130%
	13C6-PFDA	90%	40-130%
	13C7-PFUnDA	98%	30-130%
	13C2-PFDoDA	95%	10-130%
	13C2-PFTeDA	97%	10-130%
	13C3-PFBS	90%	40-135%
	13C3-PFHxS	92%	40-130%
	13C8-PFOS	95%	40-130%
	13C8-FOSA	97%	40-130%
	d3-MeFOSA	90%	10-130%
	d5-EtFOSA	90%	10-130%
	d3-MeFOSAA	97%	40-170%
	d5-EtFOSAA	94%	25-135%
	d7-MeFOSE	103%	10-130%
	d9-EtFOSE	105%	10-130%
	13C2-4:2FTS	114%	40-200%
	13C2-6:2FTS	106%	40-200%
	13C2-8:2FTS	99%	40-300%
	13C3-HFPO-DA	95%	40-130%

Instrument Blank

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q557-ICCB	2Q42325.D	1	03/25/26	AM	n/a	n/a	T2Q557

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-1A, JE29960-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	93%	5-130%
	13C5-PFPeA	91%	40-130%
	13C5-PFHxA	90%	40-130%
	13C4-PFHpA	97%	40-130%
	13C8-PFOA	97%	40-130%
	13C9-PFNA	95%	40-130%
	13C6-PFDA	103%	40-130%
	13C7-PFUnDA	104%	30-130%
	13C2-PFDoDA	98%	10-130%
	13C2-PFTeDA	94%	10-130%
	13C3-PFBS	98%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	98%	40-130%
	13C8-FOSA	106%	40-130%
	d3-MeFOSA	90%	10-130%
	d5-EtFOSA	94%	10-130%
	d3-MeFOSAA	66%	40-170%
	d5-EtFOSAA	61%	25-135%
	d7-MeFOSE	91%	10-130%
	d9-EtFOSE	80%	10-130%
	13C2-4:2FTS	99%	40-200%
	13C2-6:2FTS	90%	40-200%
	13C2-8:2FTS	89%	40-300%
	13C3-HFPO-DA	70%	40-130%

Instrument Blank

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q301-ICCB	6Q6730.D	1	03/26/26	VL	n/a	n/a	T6Q301

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	142%* [a]	5-130%
	13C5-PFPeA	91%	40-130%
	13C5-PFHxA	92%	40-130%
	13C4-PFHpA	91%	40-130%
	13C8-PFOA	93%	40-130%
	13C9-PFNA	89%	40-130%
	13C6-PFDA	93%	40-130%
	13C7-PFUnDA	95%	30-130%
	13C2-PFDoDA	97%	10-130%
	13C2-PFTeDA	91%	10-130%
	13C3-PFBS	95%	40-135%
	13C3-PFHxS	92%	40-130%
	13C8-PFOS	92%	40-130%
	13C8-FOSA	106%	40-130%
	d3-MeFOSA	87%	10-130%
	d5-EtFOSA	89%	10-130%
	d3-MeFOSAA	99%	40-170%
	d5-EtFOSAA	94%	25-135%
	d7-MeFOSE	98%	10-130%
	d9-EtFOSE	101%	10-130%
	13C2-4:2FTS	114%	40-200%
	13C2-6:2FTS	118%	40-200%
	13C2-8:2FTS	97%	40-300%
	13C3-HFPO-DA	90%	40-130%

(a) Outside of control limits.

Instrument Blank

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q301-ICCB	6Q6742.D	1	03/26/26	VL	n/a	n/a	T6Q301

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	91%	5-130%
	13C5-PFPeA	94%	40-130%
	13C5-PFHxA	94%	40-130%
	13C4-PFHpA	90%	40-130%
	13C8-PFOA	91%	40-130%
	13C9-PFNA	89%	40-130%
	13C6-PFDA	90%	40-130%
	13C7-PFUnDA	91%	30-130%
	13C2-PFDoDA	88%	10-130%
	13C2-PFTeDA	87%	10-130%
	13C3-PFBS	92%	40-135%
	13C3-PFHxS	90%	40-130%
	13C8-PFOS	90%	40-130%
	13C8-FOSA	80%	40-130%
	d3-MeFOSA	89%	10-130%
	d5-EtFOSA	100%	10-130%
	d3-MeFOSAA	89%	40-170%
	d5-EtFOSAA	86%	25-135%
	d7-MeFOSE	80%	10-130%
	d9-EtFOSE	95%	10-130%
	13C2-4:2FTS	111%	40-200%
	13C2-6:2FTS	102%	40-200%
	13C2-8:2FTS	99%	40-300%
	13C3-HFPO-DA	95%	40-130%

Method Blank Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71905-MB	2Q42326.D	1	03/25/26	AM	03/24/26	OP71905	T2Q557

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-3, JE29960-1A, JE29960-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	87%	5-130%
	13C5-PFPeA	90%	40-130%
	13C5-PFHxA	89%	40-130%
	13C4-PFHpA	85%	40-130%
	13C8-PFOA	81%	40-130%
	13C9-PFNA	79%	40-130%
	13C6-PFDA	82%	40-130%
	13C7-PFUnDA	95%	30-130%
	13C2-PFDoDA	92%	10-130%
	13C2-PFTeDA	92%	10-130%
	13C3-PFBS	87%	40-135%
	13C3-PFHxS	85%	40-130%
	13C8-PFOS	90%	40-130%
	13C8-FOSA	74%	40-130%
	d3-MeFOSA	71%	10-130%
	d5-EtFOSA	72%	10-130%
	d3-MeFOSAA	58%	40-170%
	d5-EtFOSAA	52%	25-135%
	d7-MeFOSE	74%	10-130%
	d9-EtFOSE	72%	10-130%
	13C2-4:2FTS	93%	40-200%
	13C2-6:2FTS	81%	40-200%
	13C2-8:2FTS	73%	40-300%
	13C3-HFPO-DA	87%	40-130%

Blank Spike Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71905-LLBS	2Q42330.D	1	03/25/26	AM	03/24/26	OP71905	T2Q557

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-3, JE29960-1A, JE29960-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0034	85	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0038	95	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0032	80	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0043	108	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0040	109	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0036	97	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	84%	5-130%
	13C5-PFPeA	88%	40-130%
	13C5-PFHxA	86%	40-130%
	13C4-PFHpA	87%	40-130%
	13C8-PFOA	84%	40-130%
	13C9-PFNA	80%	40-130%
	13C6-PFDA	78%	40-130%
	13C7-PFUnDA	92%	30-130%
	13C2-PFDoDA	83%	10-130%
	13C2-PFTeDA	82%	10-130%
	13C3-PFBS	79%	40-135%
	13C3-PFHxS	77%	40-130%
	13C8-PFOS	84%	40-130%
	13C8-FOSA	64%	40-130%
	d3-MeFOSA	67%	10-130%
	d5-EtFOSA	68%	10-130%
	d3-MeFOSAA	78%	40-170%
	d5-EtFOSAA	67%	25-135%
	d7-MeFOSE	66%	10-130%
	d9-EtFOSE	75%	10-130%
	13C2-4:2FTS	93%	40-200%
	13C2-6:2FTS	95%	40-200%
	13C2-8:2FTS	94%	40-300%
	13C3-HFPO-DA	100%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71905-BS	2Q42331.D	1	03/25/26	AM	03/24/26	OP71905	T2Q557

The QC reported here applies to the following samples: **Method:** EPA 1633

JE29960-3, JE29960-1A, JE29960-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0254	102	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0231	92	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0223	89	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0268	107	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0206	90	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0218	94	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	83%	5-130%
	13C5-PFPeA	87%	40-130%
	13C5-PFHxA	87%	40-130%
	13C4-PFHpA	83%	40-130%
	13C8-PFOA	85%	40-130%
	13C9-PFNA	83%	40-130%
	13C6-PFDA	78%	40-130%
	13C7-PFUnDA	88%	30-130%
	13C2-PFDoDA	87%	10-130%
	13C2-PFTeDA	82%	10-130%
	13C3-PFBS	81%	40-135%
	13C3-PFHxS	91%	40-130%
	13C8-PFOS	84%	40-130%
	13C8-FOSA	66%	40-130%
	d3-MeFOSA	69%	10-130%
	d5-EtFOSA	75%	10-130%
	d3-MeFOSAA	80%	40-170%
	d5-EtFOSAA	74%	25-135%
	d7-MeFOSE	71%	10-130%
	d9-EtFOSE	77%	10-130%
	13C2-4:2FTS	79%	40-200%
	13C2-6:2FTS	85%	40-200%
	13C2-8:2FTS	84%	40-300%
	13C3-HFPO-DA	95%	40-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71687A-BS12	Z178626.D	1	03/16/26	AC	03/16/26	OP71687A	EZ8780
OP71687A-BSD12	Z178627.D	1	03/16/26	AC	03/16/26	OP71687A	EZ8780

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE29960-1, JE29960-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	0.8	0.356	45	0.337	42	5	10-110/40

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	55%	49%	15-110%
4165-62-2	Phenol-d5	39%	38%	12-110%
118-79-6	2,4,6-Tribromophenol	87%	80%	32-143%
4165-60-0	Nitrobenzene-d5	64%	59%	29-124%
321-60-8	2-Fluorobiphenyl	46%	42%	23-122%
1718-51-0	Terphenyl-d14	73%	70%	22-130%

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q556-CC552	**Injection Date:**	03/24/26
Lab File ID:	2Q42310.D	**Injection Time:**	17:10
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	45760	3.20	31910	5.79	70684	7.20	24184	7.71	18300	8.20
Check Std [c]	44376	3.19	29533	5.77	67331	7.18	23834	7.69	16794	8.19
Upper Limit [d]	91520	3.59	63820	6.17	141368	7.58	48368	8.09	36600	8.59
Lower Limit [e]	22880	2.79	15955	5.37	35342	6.78	12092	7.29	9150	7.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q556-ICCB	44120	3.19	30707	5.77	68795	7.18	22335	7.71	16729	8.19	1
T2Q557-RT											
T2Q557-RT	47168	3.19	33335	5.77	73752	7.18	25518	7.71	17547	8.19	1
T2Q557-IBLK	45645	3.19	31085	5.77	69977	7.18	23115	7.71	17503	8.19	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q556-CC552	**Injection Date:**	03/24/26
Lab File ID:	2Q42310.D	**Injection Time:**	17:10
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	6995	7.31	9659	8.37
Check Std [c]	6696	7.30	9438	8.35
Upper Limit [d]	13990	7.70	19318	8.75
Lower Limit [e]	3498	6.90	4830	7.95

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q556-ICCB	7253	7.30	9290	8.35	1
T2Q557-RT			11538	8.35	1
T2Q557-RT	7607	7.30	10486	8.35	1
T2Q557-IBLK	7472	7.30	10189	8.35	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T2Q557-CC552 **Injection Date:** 03/25/26
Lab File ID: 2Q42323.D **Injection Time:** 11:56
Instrument ID: GCMS2Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	45760	3.20	31910	5.79	70684	7.20	24184	7.71	18300	8.20
Check Std [c]	46049	3.19	32243	5.77	72017	7.18	24380	7.71	17025	8.19
Upper Limit [d]	91520	3.59	63820	6.17	141368	7.58	48368	8.11	36600	8.59
Lower Limit [e]	22880	2.79	15955	5.37	35342	6.78	12092	7.31	9150	7.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q557-ICCB	38639	3.19	31671	5.77	70160	7.18	24845	7.69	17832	8.19	1
OP71905-MB	59179	3.20	38665	5.77	87958	7.18	27833	7.69	20097	8.19	1
ZZZZZZ	56316	3.20	36323	5.78	82303	7.18	27312	7.71	19353	8.19	1
ZZZZZZ	60034	3.20	40612	5.78	91299	7.18	28082	7.71	21640	8.19	1
ZZZZZZ	54020	3.20	35698	5.78	80862	7.18	27651	7.69	18700	8.19	1
OP71905-LLBS	56016	3.20	36501	5.77	82777	7.18	30885	7.69	20306	8.19	1
OP71905-BS	52574	3.20	34032	5.77	79638	7.18	27121	7.69	19280	8.19	1
OP71905-DUP	55795	3.20	39264	5.78	85409	7.18	27879	7.71	21474	8.19	1
ZZZZZZ	38222	3.16	32506	5.76	73842	7.18	27983	7.69	19202	8.18	1
JE29960-1A	53765	3.19	37370	5.77	80106	7.18	27471	7.69	20306	8.18	1
JE29960-2A	59800	3.20	38787	5.78	90432	7.18	29638	7.71	22124	8.19	1
ZZZZZZ	52547	3.19	36024	5.77	79825	7.18	27051	7.69	19536	8.19	1
ZZZZZZ	49097	3.19	36609	5.77	78107	7.18	27528	7.69	19727	8.19	1
ZZZZZZ	46549	3.19	34571	5.77	74683	7.18	26002	7.71	17846	8.19	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q557-CC552	**Injection Date:**	03/25/26
Lab File ID:	2Q42323.D	**Injection Time:**	11:56
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	6995	7.31	9659	8.37
Check Std [c]	7215	7.30	10399	8.35
Upper Limit [d]	13990	7.70	19318	8.75
Lower Limit [e]	3498	6.90	4830	7.95

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q557-ICCB	6557	7.30	9217	8.35	1
OP71905-MB	8502	7.30	11300	8.35	1
ZZZZZZ	7850	7.30	11727	8.35	1
ZZZZZZ	9304	7.30	12422	8.35	1
ZZZZZZ	8066	7.30	11616	8.35	1
OP71905-LLBS	8805	7.30	11982	8.35	1
OP71905-BS	8244	7.30	11283	8.35	1
OP71905-DUP	8157	7.30	12138	8.35	1
ZZZZZZ	5128	7.30	8295	8.35	1
JE29960-1A	8189	7.30	11679	8.35	1
JE29960-2A	8685	7.30	12483	8.35	1
ZZZZZZ	8003	7.30	11259	8.35	1
ZZZZZZ	7588	7.30	11314	8.35	1
ZZZZZZ	7716	7.30	11169	8.34	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q300-CC300	**Injection Date:**	03/25/26
Lab File ID:	6Q6719.D	**Injection Time:**	16:40
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	365665	3.31	280785	5.94	494004	7.32	185713	7.84	179676	8.34
Check Std [c]	371476	3.31	282420	5.94	490905	7.31	185388	7.84	178291	8.34
Upper Limit [d]	731330	3.71	561570	6.34	988008	7.71	371426	8.24	359352	8.74
Lower Limit [e]	182833	2.91	140393	5.54	247002	6.91	92857	7.44	89838	7.94

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T6Q301-RT											
T6Q301-RT	373867	3.30	292371	5.92	510324	7.30	193210	7.83	177394	8.33	1
T6Q301-IBLK	412119	3.30	309815	5.92	553594	7.31	209007	7.83	192359	8.33	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q300-ICC300 6Q6712.D 03/25/26 15:08. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q300-CC300	**Injection Date:**	03/25/26
Lab File ID:	6Q6719.D	**Injection Time:**	16:40
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	43792	7.46	73551	8.54
Check Std [c]	44048	7.46	74535	8.53
Upper Limit [d]	87584	7.86	147102	8.93
Lower Limit [e]	21896	7.06	36776	8.13

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T6Q301-RT			81164	8.53	1
T6Q301-RT	44903	7.45	75430	8.52	1
T6Q301-IBLK	47903	7.45	80979	8.52	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q300-ICC300 6Q6712.D 03/25/26 15:08. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T6Q301-CC300 **Injection Date:** 03/26/26
Lab File ID: 6Q6728.D **Injection Time:** 11:01
Instrument ID: GCMS6Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	365665	3.31	280785	5.94	494004	7.32	185713	7.84	179676	8.34
Check Std [c]	380912	3.30	284012	5.92	516319	7.31	195735	7.83	178146	8.33
Upper Limit [d]	731330	3.70	561570	6.32	988008	7.71	371426	8.23	359352	8.73
Lower Limit [e]	182833	2.90	140393	5.52	247002	6.91	92857	7.43	89838	7.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T6Q301-ICCB	259614	3.33	318033	5.94	562613	7.31	211648	7.83	204807	8.33	1
ZZZZZZ	476628	3.31	367001	5.92	639890	7.31	236516	7.83	227977	8.33	1
JE29960-3	480463	3.31	358750	5.92	637323	7.31	237930	7.83	216521	8.33	1
ZZZZZZ	438755	3.31	347245	5.92	637720	7.30	232320	7.82	201095	8.33	5
ZZZZZZ	402330	3.31	309740	5.92	542285	7.31	215350	7.83	185430	8.33	5
ZZZZZZ	386435	3.31	308325	5.92	615490	7.30	206670	7.83	208385	8.33	5
ZZZZZZ	471490	3.31	371050	5.92	655605	7.31	241145	7.83	229295	8.33	5
ZZZZZZ	509100	3.30	481840	5.92	801600	7.30	298160	7.83	272960	8.32	20
ZZZZZZ	511860	3.31	445100	5.92	770360	7.30	294840	7.83	224700	8.32	20
T6Q301-ECC300	386013	3.30	287695	5.92	536766	7.30	197801	7.83	175188	8.33	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q300-ICC300 6Q6712.D 03/25/26 15:08. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q301-CC300	**Injection Date:**	03/26/26
Lab File ID:	6Q6728.D	**Injection Time:**	11:01
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	43792	7.46	73551	8.54
Check Std [c]	42898	7.45	75000	8.52
Upper Limit [d]	87584	7.85	147102	8.92
Lower Limit [e]	21896	7.05	36776	8.12

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T6Q301-ICCB	47780	7.45	80799	8.52	1
ZZZZZZ	54172	7.45	91604	8.52	1
JE29960-3	55282	7.45	92975	8.52	1
ZZZZZZ	57570	7.45	90250	8.52	5
ZZZZZZ	48115	7.45	77975	8.52	5
ZZZZZZ	50695	7.45	132190	8.52	5
ZZZZZZ	56330	7.45	98520	8.52	5
ZZZZZZ	81880	7.45	119320	8.52	20
ZZZZZZ	75940	7.45	114980	8.52	20
T6Q301-ECC300	44712	7.45	74228	8.52	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q300-ICC300 6Q6712.D 03/25/26 15:08. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Internal Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: EZ8780-CC8744 **Injection Date:** 03/16/26
Lab File ID: Z178614.D **Injection Time:** 15:20
Instrument ID: GCMSZ **Method:** SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	31395	6.25	36068	7.59	55370	10.36	38108	14.57
Upper Limit [a]	62790	6.75	72136	8.09	110740	10.86	76216	15.07
Lower Limit [b]	15698	5.75	18034	7.09	27685	9.86	19054	14.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP71649A-MB1	40450	6.25	49985	7.59	71815	10.36	42554	14.57
OP71649A-BS12	31333	6.25	40179	7.59	59537	10.36	40411	14.57
OP71649A-BSD12	35606	6.25	46365	7.59	65921	10.36	40579	14.57
ZZZZZZ	36027	6.25	44221	7.59	62165	10.36	40139	14.57
ZZZZZZ	38468	6.25	45695	7.59	64946	10.36	40637	14.57
ZZZZZZ	35033	6.25	42875	7.59	61795	10.36	39268	14.57
ZZZZZZ	32439	6.25	39367	7.59	58232	10.36	36776	14.57
ZZZZZZ	40304	6.25	49203	7.59	67837	10.36	40474	14.57
OP71687C-MB1	38745	6.25	46578	7.59	64255	10.36	38889	14.57
OP71687A-MB1	38745	6.25	46578	7.59	64255	10.36	38889	14.57
ZZZZZZ	35762	6.25	43094	7.59	61260	10.36	39145	14.57
OP71687A-BS12	37619	6.25	46463	7.59	65632	10.36	41182	14.57
OP71687C-BS12	37619	6.25	46463	7.59	65632	10.36	41182	14.57
OP71687C-BSD12	36908	6.25	45904	7.59	64282	10.36	40401	14.57
OP71687A-BSD12	36908	6.25	45904	7.59	64282	10.36	40401	14.57
ZZZZZZ	39101	6.25	46799	7.59	65090	10.36	40260	14.57
ZZZZZZ	40397	6.25	48777	7.59	69416	10.36	41039	14.57
ZZZZZZ	34381	6.25	41282	7.60	57550	10.36	35117	14.57
ZZZZZZ	39694	6.25	49231	7.60	69779	10.36	40222	14.57
ZZZZZZ	38457	6.25	46059	7.60	66113	10.36	40610	14.57
ZZZZZZ	35968	6.25	44669	7.59	64957	10.36	38711	14.57
ZZZZZZ	35413	6.25	43365	7.59	63685	10.36	39818	14.57
ZZZZZZ	36630	6.25	44726	7.59	63533	10.36	39692	14.57
ZZZZZZ	37664	6.24	47327	7.59	66662	10.36	41550	14.57
ZZZZZZ	39948	6.24	70821	7.59	57010	10.36	55236	14.57
ZZZZZZ	39268	6.24	48999	7.59	66766	10.36	41232	14.57

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	EZ8781-CC8744	**Injection Date:**	03/17/26
Lab File ID:	Z178645.D	**Injection Time:**	14:04
Instrument ID:	GCMSZ	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	32298	6.23	40352	7.58	57630	10.34	38987	14.56
Upper Limit [a]	64596	6.73	80704	8.08	115260	10.84	77974	15.06
Lower Limit [b]	16149	5.73	20176	7.08	28815	9.84	19494	14.06

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP71687C-MB1 [c]	38235	6.23	46059	7.58	63625	10.34	37627	14.55
ZZZZZZ	35579	6.23	44229	7.58	62368	10.34	39671	14.55
OP71653A-MB1	39799	6.23	49633	7.58	67815	10.34	39565	14.55
OP71653A-BS12	37273	6.23	47943	7.58	65973	10.34	41407	14.55
OP71653A-BSD12	37684	6.23	48470	7.58	63955	10.34	42755	14.55
ZZZZZZ	37334	6.23	45789	7.58	64121	10.34	38885	14.55
ZZZZZZ	37119	6.23	46276	7.58	65165	10.34	38197	14.55
ZZZZZZ	37765	6.23	47056	7.58	64925	10.34	39093	14.55
ZZZZZZ	40135	6.23	49520	7.58	69847	10.34	42129	14.55
ZZZZZZ	44568	6.24	53545	7.58	66712	10.33	42785	14.55
ZZZZZZ	38972	6.23	47996	7.58	64979	10.34	37941	14.55
ZZZZZZ	34590	6.23	49360	7.58	60873	10.35	53327	14.56
JE29960-1	37105	6.23	44579	7.58	64562	10.33	40287	14.55
JE29960-2	34644	6.23	42138	7.57	60161	10.33	39184	14.55
ZZZZZZ	36556	6.22	43836	7.57	53764	10.33	39546	14.55
ZZZZZZ	37623	6.22	49855	7.57	55179	10.33	46188	14.55
ZZZZZZ	108875*	6.23	52444	7.57	57081	10.33	36930	14.55
ZZZZZZ	28877	6.22	37959	7.57	56814	10.33	39193	14.55
ZZZZZZ	28908	6.22	37571	7.57	53094	10.33	36819	14.55
ZZZZZZ	27028	6.22	35810	7.58	54392	10.33	38220	14.55

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) has large hits

Isotope Dilution Standard Recovery Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE29960-3	6Q6732.D	81	82	81	74	80	78
JE29960-1A	2Q42335.D	82	90	86	80	87	81
JE29960-2A	2Q42336.D	86	81	90	83	82	81
OP71905-BS	2Q42331.D	83	85	83	78	91	84
OP71905-LLBS	2Q42330.D	87	84	80	78	77	84
OP71905-MB	2Q42326.D	85	81	79	82	85	90
T2Q552-IBLK	2Q42144.D	93	97	93	100	98	93
T2Q557-IBLK	2Q42322.D	91	96	99	96	95	94
T2Q557-ICCB	2Q42325.D	97	97	95	103	99	98
T6Q300-IBLK	6Q6717.D	90	91	94	93	88	88
T6Q301-IBLK	6Q6727.D	91	91	92	90	92	95
T6Q301-ICCB	6Q6730.D	91	93	89	93	92	92
T6Q301-ICCB	6Q6742.D	90	91	89	90	90	90

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFHpA	40-130%
S2 = 13C8-PFOA	40-130%
S3 = 13C9-PFNA	40-130%
S4 = 13C6-PFDA	40-130%
S5 = 13C3-PFHxS	40-130%
S6 = 13C8-PFOS	40-130%

Surrogate Recovery Summary

Job Number: JE29960
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JE29960-1	Z178659.D	62	53	69
JE29960-2	Z178660.D	71	60	76
OP71687A-BS12	Z178626.D	64	46	73
OP71687A-BSD12	Z178627.D	59	42	70
OP71687A-MB1	Z178624.D	66	50	77

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60695
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date:				03/15/26		03/15/26	
Metal	RL	IDL	MDL	MB raw	MB final	MB raw	MB final
Aluminum	50	.42	12				
Antimony	2.0	.085	.88	-0.36	<2.0	-0.36	<2.0
Arsenic	1.0	.025	.25	-0.045	<1.0	-0.046	<1.0
Barium	1.0	.009	.36				
Beryllium	0.50	.005	.065				
Boron	50	.85	18				
Cadmium	0.50	.01	.099	-0.016	<0.50	-0.027	<0.50
Calcium	250	3.6	35				
Chromium	4.0	.018	.33	-0.026	<4.0	0.0052	<4.0
Cobalt	0.50	.003	.06				
Copper	4.0	.024	.65	0.034	<4.0	0.11	<4.0
Iron	50	.24	12				
Lead	0.50	.008	.14	0.030	<0.50	0.011	<0.50
Magnesium	250	.19	43				
Manganese	1.0	.012	.38				
Molybdenum	1.0	.017	.18				
Nickel	4.0	.017	.26	0.044	<4.0	0.037	<4.0
Potassium	250	.78	43				
Selenium	1.0	.044	.38				
Silver	2.0	.004	.1	0.016	<2.0	0.0071	<2.0
Sodium	250	1.5	50				
Strontium	5.0	.014	.65				
Thallium	0.50	.002	.085				
Tin	5.0	.041	.62				
Titanium	1.0	.11	.63				
Vanadium	4.0	.013	.48				
Zinc	10	.078	3.7	1.4	<10	0.34	<10

Associated samples MP60695: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60695
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date:		03/15/26				03/15/26	
Metal	BSP Result	Spikelot MPX200.8B% Rec	QC Limits	BSP Result	Spikelot MP200.7A % Rec	QC Limits	
Aluminum							
Antimony	84.3	80	105.4	85-115	2060	2000	103.0	85-115
Arsenic	82.8	80	103.5	85-115	2100	2000	105.0	85-115
Barium							
Beryllium							
Boron							
Cadmium	80.7	80	100.9	85-115	2000	2000	100.0	85-115
Calcium							
Chromium	83.1	80	103.9	85-115	2070	2000	103.5	85-115
Cobalt							
Copper	82.0	80	102.5	85-115	2050	2000	102.5	85-115
Iron	anr						
Lead	83.5	80	104.4	85-115	2020	2000	101.0	85-115
Magnesium							
Manganese	anr						
Molybdenum							
Nickel	81.8	80	102.3	85-115	2060	2000	103.0	85-115
Potassium							
Selenium							
Silver	81.9	80	102.4	85-115	91.5	80	114.4	85-115
Sodium							
Strontium							
Thallium							
Tin							
Titanium							
Vanadium							
Zinc	82.1	80	102.6	85-115	2060	2000	103.0	85-115

Associated samples MP60695: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60695
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 03/15/26

Metal	BSP Result	Spikelot MPX200.8B	% Rec	QC Limits
Aluminum				
Antimony	85.1	80	106.4	85-115
Arsenic	83.9	80	104.9	85-115
Barium				
Beryllium				
Boron				
Cadmium	80.9	80	101.1	85-115
Calcium				
Chromium	82.9	80	103.6	85-115
Cobalt				
Copper	81.3	80	101.6	85-115
Iron	anr			
Lead	82.6	80	103.3	85-115
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	82.1	80	102.6	85-115
Potassium				
Selenium				
Silver	80.6	80	100.8	85-115
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	82.0	80	102.5	85-115

Associated samples MP60695: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60698
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 03/15/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	77		
Antimony	6.0	2.8	4.1		
Arsenic	3.0	2.6	2.5		
Barium	200	.2	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.5	4.8		
Boron	100	1.8	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	13	130	29.2	<5000
Cerium	100				
Chromium	10	.7	1.5		
Cobalt	50	.6	2.5		
Copper	10	.7	4.1		
Iron	100	3.3	30	10.9	<100
Lead	3.0	2	2.4		
Lithium	50	1.5	9.1		
Magnesium	5000	25	200	6.4	<5000
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.8	1.8		
Phosphorus	50	7	14		
Potassium	10000	35	200		
Selenium	10	3.6	5.5	-0.40	<10
Silicon	200	2.2	130		
Silver	10	.6	2.4		
Sodium	10000	14	900		
Strontium	10	.1	1.6		
Sulfur	50	3.7	18		
Thallium	10	5.2	1.9		
Tin	50	1.4	4.7		
Titanium	10	.8	1.9		
Tungsten	50	1.3	19		
Vanadium	50	.5	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60698
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 03/15/26

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	8.5		
Zirconium	10	.5	4.9		

Associated samples MP60698: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60698
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 03/15/26 03/15/26

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits	BSD Result	Spikelot MP200.7A	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium									
Bismuth									
Boron									
Cadmium	anr								
Calcium	26000	25000	104.0	85-115	26200	25000	104.8	0.8	20
Cerium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	26600	25000	106.4	85-115	26200	25000	104.8	1.5	20
Lead	anr								
Lithium									
Magnesium	25900	25000	103.6	85-115	26400	25000	105.6	1.9	20
Manganese									
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium									
Selenium	2180	2000	109.0	85-115	2170	2000	108.5	0.5	20
Silicon									
Silver	anr								
Sodium									
Strontium									
Sulfur									
Thallium									
Tin	anr								
Titanium	anr								
Tungsten									
Vanadium	anr								

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60698
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 03/15/26 03/15/26

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits	BSD Result	Spikelot MP200.7A % Rec	BSD RPD	QC Limit
Zinc	anr						
Zirconium							

Associated samples MP60698: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60698
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 03/15/26

Metal	JE29960-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium	anr			
Calcium	235000	238000	2.7	0-10
Cerium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	38.6	135	249.0(a)	0-10
Lead	anr			
Lithium				
Magnesium	77600	75900	2.2	0-10
Manganese				
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium				
Tin	anr			
Titanium	anr			
Tungsten				
Vanadium	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60698 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/15/26

Metal	JE29960-1 Original SDL 1:5	%DIF	QC Limits
Zinc	anr		
Zirconium			

Associated samples MP60698: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60710 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/16/26

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.036	.092	-0.023	<0.20

Associated samples MP60710: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP60710
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date:			03/16/26					03/16/26	
Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	85-115	2.0	2	100.0	0.0	

Associated samples MP60710: JE29960-1, JE29960-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JE29960
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP68558/GN80608	2.0	0.0	mg/l	80	79.4	99.3	90-110%
Chromium, Hexavalent	GN80426	0.010	0.0	mg/l	0.150	0.147	98.0	90-110%
Cyanide	GP68522/GN80563	0.010	0.0	mg/l	0.2	0.204	102.0	90-110%
Fluoride	GP68558/GN80608	0.20	0.0	mg/l	2	2.11	105.5	90-110%
HEM Petroleum Hydrocarbons	GP68469/GN80453	5.0	0.0	mg/l	20	19.7	98.5	64-132%
Hardness, Total as CaCO3	GN80441	5.0	0.0	mg/l	160	164	102.5	80-120%
Hardness, Total as CaCO3	GN80441			mg/l	50	80.4	160.8*	80-120%
Nitrogen, Ammonia	GP68527/GN80562	0.20	0.094	mg/l	1	1.08	108.0	80-120%
Phenols	GP68532/GN80601	0.20	0.0	mg/l	0.5	0.523	104.6	90-110%
Solids, Total Dissolved	GN80541	10	0.0	mg/l	500	496	99.2	71-110%
Solids, Total Suspended	GN80539	4.0	0.0	mg/l	50	49.9	99.8	84-111%
Sulfate	GP68558/GN80608	2.0	0.0	mg/l	80	77.4	96.8	90-110%
Turbidity	GN80417	0.30	0.21	NTU	20	20.1	100.5	90-110%

Associated Samples:
Batch GN80417: JE29960-1, JE29960-2
Batch GN80426: JE29960-1, JE29960-2
Batch GN80441: JE29960-1, JE29960-2
Batch GN80539: JE29960-1, JE29960-2
Batch GN80541: JE29960-1, JE29960-2
Batch GP68469: JE29960-2
Batch GP68522: JE29960-1, JE29960-2
Batch GP68527: JE29960-1, JE29960-2
Batch GP68532: JE29960-1, JE29960-2
Batch GP68558: JE29960-1, JE29960-2
(*) Outside of QC limits

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE30556

Sampling Date: 03/18/26



Report to:

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ATTN: Cullen Bryant

Total number of pages in report: 62

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Brittany Stacks 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE30556

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JE30556-1	03/18/26	12:40	CB	03/19/26	AQ	Water	MWTT-2520
JE30556-2	03/18/26	13:00	CB	03/19/26	AQ	Water	MWTT-2521
JE30556-3	03/18/26	14:00	CB	03/19/26	AQ	Water	MWTT-2524
JE30556-4	03/18/26	13:20	CB	03/19/26	AQ	Water	MWTT-2525
JE30556-5	03/18/26	13:45	CB	03/19/26	AQ	Water	MWTT-2526A
JE30556-6	03/18/26	13:35	CB	03/19/26	AQ	Water	MWTT-2526B
JE30556-7	03/18/26	11:20	CB	03/19/26	AQ	Field Blank Water	FB

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Tetra Tech	**Job No:**	JE30556
Site:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA	**Report Date**	3/27/2026 1:25:27 PM

On 03/19/2026, 6 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of -0.7 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE30556 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP71871

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE30556-6 have surrogates outside control limits. Probable cause due to matrix interference.
- JE30556-6: Confirmation run.
- JE30556-6 for 13C5-PFPeA: Outside control limits.
- JE30556-6 for PFMPA: Associated EIS outside control limits.
- JE30556-6 for PFMBA: Associated EIS outside control limits.
- JE30556-6 for Perfluoropentanoic acid: Associated EIS outside control limits.
- JE30556-6 for 3:3 Fluorotelomer carboxylate: Associated EIS outside control limits.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE30556
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 03/18/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE30556-1	**MWTT-2520**					
Perfluorobutanoic acid		0.0198	0.0081	0.00094	ug/l	EPA 1633
Perfluoropentanoic acid		0.0079	0.0040	0.00074	ug/l	EPA 1633
Perfluorohexanoic acid		0.0110	0.0020	0.00029	ug/l	EPA 1633
Perfluoroheptanoic acid		0.0121	0.0020	0.00051	ug/l	EPA 1633
Perfluorooctanoic acid		0.0190	0.0020	0.00076	ug/l	EPA 1633
Perfluorononanoic acid		0.0029	0.0020	0.00040	ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0239	0.0020	0.00067	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0019 J	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0019 J	0.0020	0.00044	ug/l	EPA 1633
JE30556-2	**MWTT-2521**					
Perfluorobutanoic acid		0.0173	0.0084	0.00097	ug/l	EPA 1633
Perfluoropentanoic acid		0.0086	0.0042	0.00076	ug/l	EPA 1633
Perfluorohexanoic acid		0.0067	0.0021	0.00030	ug/l	EPA 1633
Perfluoroheptanoic acid		0.0103	0.0021	0.00052	ug/l	EPA 1633
Perfluorooctanoic acid		0.0419	0.0021	0.00078	ug/l	EPA 1633
Perfluorononanoic acid		0.0107	0.0021	0.00042	ug/l	EPA 1633
Perfluorodecanoic acid		0.00077 J	0.0021	0.00065	ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0045	0.0021	0.00069	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0035	0.0021	0.0012	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0039	0.0021	0.00045	ug/l	EPA 1633
JE30556-3	**MWTT-2524**					
Perfluorobutanoic acid		0.0059 J	0.0082	0.00095	ug/l	EPA 1633
Perfluoropentanoic acid		0.0022 J	0.0041	0.00075	ug/l	EPA 1633
Perfluorohexanoic acid		0.0023	0.0020	0.00030	ug/l	EPA 1633
Perfluoroheptanoic acid		0.0015 J	0.0020	0.00051	ug/l	EPA 1633
Perfluorooctanoic acid		0.0034	0.0020	0.00077	ug/l	EPA 1633
Perfluorononanoic acid		0.0012 J	0.0020	0.00041	ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0014 J	0.0020	0.00068	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0028	0.0020	0.00044	ug/l	EPA 1633
JE30556-4	**MWTT-2525**					
Perfluorobutanoic acid		0.119	0.0084	0.00097	ug/l	EPA 1633
Perfluoropentanoic acid		0.101	0.0042	0.00076	ug/l	EPA 1633
Perfluorohexanoic acid		0.0865	0.0021	0.00030	ug/l	EPA 1633
Perfluoroheptanoic acid		0.0015 J	0.0041	0.0010	ug/l	EPA 1633
Perfluorooctanoic acid		0.0032 J	0.0041	0.0015	ug/l	EPA 1633
Perfluorononanoic acid		0.0560	0.0021	0.00042	ug/l	EPA 1633
Perfluorodecanoic acid		0.0031	0.0021	0.00065	ug/l	EPA 1633

Summary of Hits

Job Number: JE30556
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 03/18/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perfluoropentanesulfonic acid		0.0012 J	0.0021	0.0011	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0036	0.0021	0.0012	ug/l	EPA 1633
PFMPA		0.0053	0.0042	0.00031	ug/l	EPA 1633
PFMBA		0.0037 J	0.0042	0.00058	ug/l	EPA 1633
JE30556-5	**MWTT-2526A**					
Perfluorobutanoic acid		0.0099	0.0081	0.00094	ug/l	EPA 1633
Perfluoropentanoic acid		0.0137	0.0040	0.00074	ug/l	EPA 1633
Perfluorohexanoic acid		0.0114	0.0020	0.00029	ug/l	EPA 1633
Perfluoroheptanoic acid		0.0509	0.0020	0.00050	ug/l	EPA 1633
Perfluorooctanoic acid		0.880	0.0042	0.0016	ug/l	EPA 1633
Perfluorononanoic acid		0.119	0.0020	0.00040	ug/l	EPA 1633
Perfluorodecanoic acid		0.0064	0.0020	0.00062	ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0026	0.0020	0.00067	ug/l	EPA 1633
Perfluoropentanesulfonic acid		0.0022 J	0.0042	0.0021	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0020	0.0020	0.0011	ug/l	EPA 1633
PFMPA		0.0056 J	0.0084	0.00063	ug/l	EPA 1633
PFMBA		0.0041 J	0.0084	0.0012	ug/l	EPA 1633
JE30556-6	**MWTT-2526B**					
No hits reported in this sample.						
JE30556-7	**FB**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MWTT-2520
Lab Sample ID: JE30556-1
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42277.D	1	03/23/26 22:00	AM	03/23/26 17:00	OP71871	T2Q555
Run #2							

	Initial Volume	Final Volume
Run #1	494 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0198	0.0081	0.00094	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0079	0.0040	0.00074	ug/l	
307-24-4	Perfluorohexanoic acid	0.0110	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0121	0.0020	0.00051	ug/l	
335-67-1	Perfluorooctanoic acid	0.0190	0.0020	0.00076	ug/l	
375-95-1	Perfluorononanoic acid	0.0029	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00063	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00056	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00078	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00077	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0239	0.0020	0.00067	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0019	0.0020	0.0011	ug/l	J
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00099	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0019	0.0020	0.00044	ug/l	J
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0081	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0081	0.00092	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0081	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0020	0.00070	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00065	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00054	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWTT-2520		
Lab Sample ID:	JE30556-1	**Date Sampled:**	03/18/26
Matrix:	AQ - Water	**Date Received:**	03/19/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0020	0.00052	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00092	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0081	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0081	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00057	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0081	0.0025	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0081	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.051	0.0072	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.051	0.0063	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	85%		5-130%
	13C5-PFPeA	77%		40-130%
	13C5-PFHxA	78%		40-130%
	13C4-PFHpA	77%		40-130%
	13C8-PFOA	82%		40-130%
	13C9-PFNA	79%		40-130%
	13C6-PFDA	80%		40-130%
	13C7-PFUnDA	82%		30-130%
	13C2-PFDoDA	83%		10-130%
	13C2-PFTeDA	71%		10-130%
	13C3-PFBS	83%		40-135%
	13C3-PFHxS	84%		40-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2520
Lab Sample ID: JE30556-1
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	90%		40-130%
	13C8-FOSA	82%		40-130%
	d3-MeFOSA	73%		10-130%
	d5-EtFOSA	71%		10-130%
	d3-MeFOSAA	75%		40-170%
	d5-EtFOSAA	67%		25-135%
	d7-MeFOSE	84%		10-130%
	d9-EtFOSE	78%		10-130%
	13C2-4:2FTS	78%		40-200%
	13C2-6:2FTS	79%		40-200%
	13C2-8:2FTS	91%		40-300%
	13C3-HFPO-DA	80%		40-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2521
Lab Sample ID: JE30556-2
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42280.D	1	03/23/26 22:47	AM	03/23/26 17:00	OP71871	T2Q555
Run #2							

	Initial Volume	Final Volume
Run #1	478 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0173	0.0084	0.00097	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0086	0.0042	0.00076	ug/l	
307-24-4	Perfluorohexanoic acid	0.0067	0.0021	0.00030	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0103	0.0021	0.00052	ug/l	
335-67-1	Perfluorooctanoic acid	0.0419	0.0021	0.00078	ug/l	
375-95-1	Perfluorononanoic acid	0.0107	0.0021	0.00042	ug/l	
335-76-2	Perfluorodecanoic acid	0.00077	0.0021	0.00065	ug/l	J
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	0.00058	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	0.00081	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	0.00083	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	0.00079	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0045	0.0021	0.00069	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0035	0.0021	0.0012	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0039	0.0021	0.00045	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	0.00042	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0084	0.0024	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0084	0.00095	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0084	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0021	0.00072	ug/l	
31506-32-8	MeFOSA	ND	0.0021	0.00067	ug/l	
4151-50-2	EtFOSA	ND	0.0021	0.00055	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWTT-2521		
Lab Sample ID:	JE30556-2	**Date Sampled:**	03/18/26
Matrix:	AQ - Water	**Date Received:**	03/19/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0021	0.00053	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	0.00095	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.021	0.0029	ug/l	
1691-99-2	EtFOSE	ND	0.021	0.0039	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0084	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0084	0.0013	ug/l	
377-73-1	PFMPA	ND	0.0042	0.00031	ug/l	
863090-89-5	PFMBA	ND	0.0042	0.00059	ug/l	
151772-58-6	NFDHA	ND	0.0042	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0084	0.0026	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0084	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0042	0.00028	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0025	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.052	0.0074	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.052	0.0065	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	86%		5-130%
	13C5-PFPeA	82%		40-130%
	13C5-PFHxA	78%		40-130%
	13C4-PFHpA	76%		40-130%
	13C8-PFOA	76%		40-130%
	13C9-PFNA	82%		40-130%
	13C6-PFDA	75%		40-130%
	13C7-PFUnDA	81%		30-130%
	13C2-PFDoDA	74%		10-130%
	13C2-PFTeDA	64%		10-130%
	13C3-PFBS	76%		40-135%
	13C3-PFHxS	82%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2521
Lab Sample ID: JE30556-2
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	76%		40-130%
	13C8-FOSA	74%		40-130%
	d3-MeFOSA	65%		10-130%
	d5-EtFOSA	63%		10-130%
	d3-MeFOSAA	76%		40-170%
	d5-EtFOSAA	72%		25-135%
	d7-MeFOSE	75%		10-130%
	d9-EtFOSE	63%		10-130%
	13C2-4:2FTS	80%		40-200%
	13C2-6:2FTS	95%		40-200%
	13C2-8:2FTS	94%		40-300%
	13C3-HFPO-DA	80%		40-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2524
Lab Sample ID: JE30556-3
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42281.D	1	03/23/26 23:03	AM	03/23/26 17:00	OP71871	T2Q555
Run #2							

	Initial Volume	Final Volume
Run #1	488 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0059	0.0082	0.00095	ug/l	J
2706-90-3	Perfluoropentanoic acid	0.0022	0.0041	0.00075	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0023	0.0020	0.00030	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0015	0.0020	0.00051	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0034	0.0020	0.00077	ug/l	
375-95-1	Perfluorononanoic acid	0.0012	0.0020	0.00041	ug/l	J
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00064	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00056	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00079	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00081	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00078	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0014	0.0020	0.00068	ug/l	J
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0028	0.0020	0.00044	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00041	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0082	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0082	0.00093	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0082	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0020	0.00071	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00066	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00054	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWTT-2524		
Lab Sample ID:	JE30556-3	**Date Sampled:**	03/18/26
Matrix:	AQ - Water	**Date Received:**	03/19/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0020	0.00052	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00093	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0082	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0082	0.0013	ug/l	
377-73-1	PFMPA	ND	0.0041	0.00031	ug/l	
863090-89-5	PFMBA	ND	0.0041	0.00057	ug/l	
151772-58-6	NFDHA	ND	0.0041	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0082	0.0025	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0082	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0041	0.00028	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0025	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.051	0.0073	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.051	0.0063	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	87%		5-130%
	13C5-PFPeA	83%		40-130%
	13C5-PFHxA	85%		40-130%
	13C4-PFHpA	81%		40-130%
	13C8-PFOA	80%		40-130%
	13C9-PFNA	80%		40-130%
	13C6-PFDA	76%		40-130%
	13C7-PFUnDA	88%		30-130%
	13C2-PFDoDA	79%		10-130%
	13C2-PFTeDA	65%		10-130%
	13C3-PFBS	82%		40-135%
	13C3-PFHxS	84%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2524
Lab Sample ID: JE30556-3
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	80%		40-130%
	13C8-FOSA	78%		40-130%
	d3-MeFOSA	68%		10-130%
	d5-EtFOSA	72%		10-130%
	d3-MeFOSAA	78%		40-170%
	d5-EtFOSAA	73%		25-135%
	d7-MeFOSE	80%		10-130%
	d9-EtFOSE	76%		10-130%
	13C2-4:2FTS	90%		40-200%
	13C2-6:2FTS	89%		40-200%
	13C2-8:2FTS	103%		40-300%
	13C3-HFPO-DA	86%		40-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2525
Lab Sample ID: JE30556-4
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42282.D	1	03/23/26 23:19	AM	03/23/26 17:00	OP71871	T2Q555
Run #2	2Q42305.D	2	03/24/26 15:51	AM	03/23/26 17:00	OP71871	T2Q556

	Initial Volume	Final Volume
Run #1	479 ml	5.0 ml
Run #2	488 ml	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.119	0.0084	0.00097	ug/l	
2706-90-3	Perfluoropentanoic acid	0.101	0.0042	0.00076	ug/l	
307-24-4	Perfluorohexanoic acid	0.0865	0.0021	0.00030	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0015 [a]	0.0041	0.0010	ug/l	J
335-67-1	Perfluorooctanoic acid	0.0032 [a]	0.0041	0.0015	ug/l	J
375-95-1	Perfluorononanoic acid	0.0560	0.0021	0.00042	ug/l	
335-76-2	Perfluorodecanoic acid	0.0031	0.0021	0.00065	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	0.00057	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	0.00080	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	0.00082	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	0.00079	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0021	0.00069	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0012	0.0021	0.0011	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.0036	0.0021	0.0012	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0021	0.00045	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	0.00042	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0084	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0084	0.00095	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0084	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0021	0.00072	ug/l	
31506-32-8	MeFOSA	ND	0.0021	0.00067	ug/l	
4151-50-2	EtFOSA	ND	0.0021	0.00055	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2525
Lab Sample ID: JE30556-4
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0021	0.00053	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	0.00095	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.021	0.0029	ug/l	
1691-99-2	EtFOSE	ND	0.021	0.0039	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0084	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0084	0.0013	ug/l	
377-73-1	PFMPA	0.0053	0.0042	0.00031	ug/l	
863090-89-5	PFMBA	0.0037	0.0042	0.00058	ug/l	J
151772-58-6	NFDHA	ND	0.0042	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0084	0.0025	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0084	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0042	0.00028	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0025	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.052	0.0074	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.052	0.0065	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	88%	85%	5-130%
	13C5-PFPeA	87%	89%	40-130%
	13C5-PFHxA	88%	84%	40-130%
	13C4-PFHpA	80%	82%	40-130%
	13C8-PFOA	88%	80%	40-130%
	13C9-PFNA	92%	82%	40-130%
	13C6-PFDA	83%	76%	40-130%
	13C7-PFUnDA	93%	80%	30-130%
	13C2-PFDoDA	81%	78%	10-130%
	13C2-PFTeDA	81%	72%	10-130%
	13C3-PFBS	90%	93%	40-135%
	13C3-PFHxS	89%	81%	40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2525
Lab Sample ID: JE30556-4
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	74%	95%	40-130%
	13C8-FOSA	77%	77%	40-130%
	d3-MeFOSA	68%	73%	10-130%
	d5-EtFOSA	69%	73%	10-130%
	d3-MeFOSAA	77%	75%	40-170%
	d5-EtFOSAA	72%	71%	25-135%
	d7-MeFOSE	91%	80%	10-130%
	d9-EtFOSE	78%	79%	10-130%
	13C2-4:2FTS	80%	105%	40-200%
	13C2-6:2FTS	103%	113%	40-200%
	13C2-8:2FTS	113%	89%	40-300%
	13C3-HFPO-DA	82%	85%	40-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2526A
Lab Sample ID: JE30556-5
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42283.D	1	03/23/26 23:34	AM	03/23/26 17:00	OP71871	T2Q555
Run #2	2Q42304.D	2	03/24/26 15:36	AM	03/23/26 17:00	OP71871	T2Q556

	Initial Volume	Final Volume
Run #1	496 ml	5.0 ml
Run #2	479 ml	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0099	0.0081	0.00094	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0137	0.0040	0.00074	ug/l	
307-24-4	Perfluorohexanoic acid	0.0114	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0509	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.880 [a]	0.0042	0.0016	ug/l	
375-95-1	Perfluorononanoic acid	0.119	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	0.0064	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00078	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00080	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00077	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	0.0026	0.0020	0.00067	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	0.0022 [a]	0.0042	0.0021	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.0020	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00099	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0081	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0081	0.00092	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0081	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0020	0.00070	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00065	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2526A
Lab Sample ID: JE30556-5
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	Compound	Result	RL	MDL	Units	Q
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00092	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0081	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0081	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
377-73-1	PFMPA	0.0056 [a]	0.0084	0.00063	ug/l	J
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
863090-89-5	PFMBA	0.0041 [a]	0.0084	0.0012	ug/l	J
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0081	0.0025	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0081	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0072	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	82%	87%	5-130%
	13C5-PFPeA	88%	89%	40-130%
	13C5-PFHxA	86%	93%	40-130%
	13C4-PFHpA	83%	83%	40-130%
	13C8-PFOA	87%	89%	40-130%
	13C9-PFNA	93%	89%	40-130%
	13C6-PFDA	84%	75%	40-130%
	13C7-PFUnDA	86%	82%	30-130%
	13C2-PFDoDA	82%	74%	10-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2526A
Lab Sample ID: JE30556-5
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C2-PFTeDA	80%	63%	10-130%
	13C3-PFBS	82%	91%	40-135%
	13C3-PFHxS	91%	81%	40-130%
	13C8-PFOS	80%	91%	40-130%
	13C8-FOSA	74%	76%	40-130%
	d3-MeFOSA	68%	63%	10-130%
	d5-EtFOSA	72%	71%	10-130%
	d3-MeFOSAA	83%	75%	40-170%
	d5-EtFOSAA	77%	73%	25-135%
	d7-MeFOSE	79%	89%	10-130%
	d9-EtFOSE	73%	77%	10-130%
	13C2-4:2FTS	94%	99%	40-200%
	13C2-6:2FTS	115%	107%	40-200%
	13C2-8:2FTS	105%	102%	40-300%
	13C3-HFPO-DA	75%	90%	40-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2526B
Lab Sample ID: JE30556-6
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42284.D	1	03/23/26 23:50	AM	03/23/26 17:00	OP71871	T2Q555
Run #2 [a]	2Q42303.D	5	03/24/26 15:20	AM	03/23/26 17:00	OP71871	T2Q556

	Initial Volume	Final Volume
Run #1	504 ml	5.0 ml
Run #2	496 ml	5.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0079	0.00092	ug/l	
2706-90-3	Perfluoropentanoic acid [b]	ND	0.0040	0.00072	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00074	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00076	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00078	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00075	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00065	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00097	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0079	0.0022	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0079	0.00090	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0079	0.0014	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0020	0.00068	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00063	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MWTT-2526B		
Lab Sample ID:	JE30556-6	**Date Sampled:**	03/18/26
Matrix:	AQ - Water	**Date Received:**	03/19/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00090	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0037	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0079	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0079	0.0012	ug/l	
377-73-1	PFMPA [b]	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA [b]	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0079	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0079	0.0018	ug/l	
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylat [b]	ND	0.0099	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0061	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	6%	80%	5-130%
	13C5-PFPeA	31% [c]	81%	40-130%
	13C5-PFHxA	85%	79%	40-130%
	13C4-PFHpA	88%	75%	40-130%
	13C8-PFOA	88%	85%	40-130%
	13C9-PFNA	94%	101%	40-130%
	13C6-PFDA	83%	83%	40-130%
	13C7-PFUnDA	86%	77%	30-130%
	13C2-PFDoDA	84%	75%	10-130%
	13C2-PFTeDA	77%	72%	10-130%
	13C3-PFBS	94%	73%	40-135%
	13C3-PFHxS	90%	90%	40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MWTT-2526B
Lab Sample ID: JE30556-6
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 03/18/26
Date Received: 03/19/26
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	84%	87%	40-130%
	13C8-FOSA	78%	78%	40-130%
	d3-MeFOSA	83%	71%	10-130%
	d5-EtFOSA	82%	79%	10-130%
	d3-MeFOSAA	89%	71%	40-170%
	d5-EtFOSAA	87%	39%	25-135%
	d7-MeFOSE	73%	77%	10-130%
	d9-EtFOSE	78%	73%	10-130%
	13C2-4:2FTS	86%	100%	40-200%
	13C2-6:2FTS	102%	103%	40-200%
	13C2-8:2FTS	104%	89%	40-300%
	13C3-HFPO-DA	91%	78%	40-130%

(a) Confirmation run.
(b) Associated EIS outside control limits.
(c) Outside control limits.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JE30556-7	**Date Sampled:**	03/18/26
Matrix:	AQ - Field Blank Water	**Date Received:**	03/19/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q42265.D	1	03/23/26 18:52	AM	03/23/26 17:00	OP71871	T2Q555
Run #2							

	Initial Volume	Final Volume
Run #1	476 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	ND	0.0084	0.00098	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0042	0.00077	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0021	0.00030	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0021	0.00053	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0021	0.00079	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0021	0.00042	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0021	0.00065	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0021	0.00058	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0021	0.00081	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0021	0.00083	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0021	0.00080	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
375-73-5	Perfluorobutanesulfonic acid	ND	0.0021	0.00069	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0021	0.0011	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0021	0.0012	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0021	0.0010	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0021	0.00045	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0021	0.0015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0021	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0021	0.00042	ug/l	
FLUOROTELOMER SULFONIC ACIDS						
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0084	0.0024	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0084	0.00096	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0084	0.0015	ug/l	
PERFLUOROOCTANE SULFONAMIDES						
754-91-6	PFOSA	ND	0.0021	0.00072	ug/l	
31506-32-8	MeFOSA	ND	0.0021	0.00067	ug/l	
4151-50-2	EtFOSA	ND	0.0021	0.00056	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JE30556-7	**Date Sampled:**	03/18/26
Matrix:	AQ - Field Blank Water	**Date Received:**	03/19/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS						
2355-31-9	MeFOSAA	ND	0.0021	0.00054	ug/l	
2991-50-6	EtFOSAA	ND	0.0021	0.00096	ug/l	
PERFLUOROOCTANE SULFONAMIDO ETHANOLS						
24448-09-7	MeFOSE	ND	0.021	0.0029	ug/l	
1691-99-2	EtFOSE	ND	0.021	0.0039	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS						
13252-13-6	HFPO-DA (GenX)	ND	0.0084	0.0019	ug/l	
919005-14-4	ADONA	ND	0.0084	0.0013	ug/l	
377-73-1	PFMPA	ND	0.0042	0.00032	ug/l	
863090-89-5	PFMBA	ND	0.0042	0.00059	ug/l	
151772-58-6	NFDHA	ND	0.0042	0.0013	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS						
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0084	0.0026	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0084	0.0019	ug/l	
113507-82-7	PFEESA	ND	0.0042	0.00028	ug/l	
FLUOROTELOMER CARBOXYLIC ACIDS						
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.011	0.0025	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.053	0.0075	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.053	0.0065	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFBA	9%		5-130%
	13C5-PFPeA	81%		40-130%
	13C5-PFHxA	85%		40-130%
	13C4-PFHpA	80%		40-130%
	13C8-PFOA	82%		40-130%
	13C9-PFNA	81%		40-130%
	13C6-PFDA	74%		40-130%
	13C7-PFUnDA	80%		30-130%
	13C2-PFDoDA	72%		10-130%
	13C2-PFTeDA	46%		10-130%
	13C3-PFBS	71%		40-135%
	13C3-PFHxS	82%		40-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JE30556-7	**Date Sampled:**	03/18/26
Matrix:	AQ - Field Blank Water	**Date Received:**	03/19/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOS	80%		40-130%
	13C8-FOSA	75%		40-130%
	d3-MeFOSA	74%		10-130%
	d5-EtFOSA	78%		10-130%
	d3-MeFOSAA	58%		40-170%
	d5-EtFOSAA	57%		25-135%
	d7-MeFOSE	78%		10-130%
	d9-EtFOSE	75%		10-130%
	13C2-4:2FTS	78%		40-200%
	13C2-6:2FTS	71%		40-200%
	13C2-8:2FTS	90%		40-300%
	13C3-HFPO-DA	83%		40-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

SGS

CHAIN OF CUSTODY

Page 1 of 1

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

AQ

FED-EX Tracking #:
Bottle Order Control #: TF-03176-45
SGS Quote #:
SGS Job #: JE30556

Client / Reporting Information	Project Information	Analysis Requested	Matrix Codes
Company Name: TetraTech	Project Name: HVEC - Burlington	LCID 1633 LST 40	DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank
Street Address: 100 Nickerson Road	Street: 3 Van De Graff		
City: Marlborough State: MA Zip:	City: Burlington State: MA	Billing Information (if different from Report to)	
Project Contact: Cullen.Bryant@TetraTech.com E-mail:	Project #:	Company Name:	
Phone #: 339-223-8910	Client Purchase Order #:	Street Address:	
Sampler(s) Name(s): Cullen Bryant Phone #:	Project Manager:	City State Zip	
		Attention:	

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of Bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	LAB USE ONLY
1	MWTT-2520		3-18-26	12:40	CB	G		AQ	3					3				X	PF2
2	MWTT-2521		3-18-26	13:00	CB	G		AQ	3					3				X	MS4 +4
3	MWTT-2524		"	14:00	CB	G		"	3					3				X	
4	MWTT-2525		"	13:20	"	G		"	3					3				X	
5	MWTT-2526A		"	13:45	"	G		"	3					3				X	
6	MWTT-2526B		"	13:35	"	G		"	3					3				X	
7	FB		"	11:20	"	G		"	3					3				X	

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NJGW Criteria 2025 "new"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [x] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

RL-3A.

3/19 1120

SGS Service Center
Northborough, MA
http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished By:	Date / Time:	Received By:
1	Cullen Bryant	3-19-26 1130	
2			
3		3/19/26	
4			
5			

Custody Seal # ☐ Intact ☐ Not Intact ☐ Absent

Therm ID: On Ice: Cooler Temp. °C: See Sample Receipt Summary: 0.3

Ref No: G1403229W

JE30556: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE30556 **Client:** TETRA TECH **Project:** HVEC, 3 VAN DE GRAAF DR, BURLINGT

Date / Time Received: 3/19/2026 11:20:00 PM **Delivery Method:** sgs **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (0.3);

Cooler Temps (Corrected) °C: Cooler 1: (-0.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE30556
Project Location:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE30556-1,JE30556-2,JE30556-3,JE30556-4,JE30556-5,JE30556-6,JE30556-7

Matrices: Groundwater/Surface Water (x) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr ( ) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals ( ) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

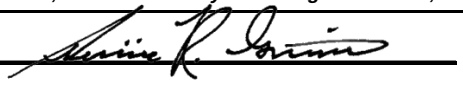
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☐ Yes	☑ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **27-Mar-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE30556

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE30556-1	Collected: 18-MAR-26 12:40 By: CB			Received: 19-MAR-26	By: EC	
MWTT-2520						
JE30556-1	EPA 1633	23-MAR-26 22:00	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-2	Collected: 18-MAR-26 13:00 By: CB			Received: 19-MAR-26	By: EC	
MWTT-2521						
JE30556-2	EPA 1633	23-MAR-26 22:47	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-3	Collected: 18-MAR-26 14:00 By: CB			Received: 19-MAR-26	By: EC	
MWTT-2524						
JE30556-3	EPA 1633	23-MAR-26 23:03	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-4	Collected: 18-MAR-26 13:20 By: CB			Received: 19-MAR-26	By: EC	
MWTT-2525						
JE30556-4	EPA 1633	23-MAR-26 23:19	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-4	EPA 1633	24-MAR-26 15:51	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-5	Collected: 18-MAR-26 13:45 By: CB			Received: 19-MAR-26	By: EC	
MWTT-2526A						
JE30556-5	EPA 1633	23-MAR-26 23:34	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-5	EPA 1633	24-MAR-26 15:36	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-6	Collected: 18-MAR-26 13:35 By: CB			Received: 19-MAR-26	By: EC	
MWTT-2526B						
JE30556-6	EPA 1633	23-MAR-26 23:50	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-6	EPA 1633	24-MAR-26 15:20	AM	23-MAR-26	FS	LCID1633LIST40
JE30556-7	Collected: 18-MAR-26 11:20 By: CB			Received: 19-MAR-26	By: EC	
FB						
JE30556-7	EPA 1633	23-MAR-26 18:52	AM	23-MAR-26	FS	LCID1633LIST40

QC Evaluation: MA MCP Limits

Job Number: JE30556
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 03/18/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No MA MCP Limits found for methods in this job.

* Sample used for QC is not from job JE30556

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection Standard Area Summaries
- Isotope Dilution Standard Recovery Summaries

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q552-IBLK	2Q42144.D	1	03/19/26	AM	n/a	n/a	T2Q552

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q552-IBLK	2Q42144.D	1	03/19/26	AM	n/a	n/a	T2Q552

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	94%	5-130%
	13C5-PFPeA	97%	40-130%
	13C5-PFHxA	96%	40-130%
	13C4-PFHpA	93%	40-130%
	13C8-PFOA	97%	40-130%
	13C9-PFNA	93%	40-130%
	13C6-PFDA	100%	40-130%
	13C7-PFUnDA	106%	30-130%
	13C2-PFDoDA	101%	10-130%
	13C2-PFTeDA	106%	10-130%
	13C3-PFBS	96%	40-135%
	13C3-PFHxS	98%	40-130%
	13C8-PFOS	93%	40-130%
	13C8-FOSA	92%	40-130%
	d3-MeFOSA	97%	10-130%
	d5-EtFOSA	95%	10-130%
	d3-MeFOSAA	97%	40-170%
	d5-EtFOSAA	97%	25-135%
	d7-MeFOSE	96%	10-130%
	d9-EtFOSE	99%	10-130%
	13C2-4:2FTS	123%	40-200%
	13C2-6:2FTS	114%	40-200%
	13C2-8:2FTS	109%	40-300%
	13C3-HFPO-DA	91%	40-130%

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-IBLK	2Q42260.D	1	03/23/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-IBLK	2Q42260.D	1	03/23/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	95%	5-130%
	13C5-PFPeA	94%	40-130%
	13C5-PFHxA	89%	40-130%
	13C4-PFHpA	89%	40-130%
	13C8-PFOA	100%	40-130%
	13C9-PFNA	95%	40-130%
	13C6-PFDA	90%	40-130%
	13C7-PFUnDA	104%	30-130%
	13C2-PFDoDA	98%	10-130%
	13C2-PFTeDA	87%	10-130%
	13C3-PFBS	97%	40-135%
	13C3-PFHxS	94%	40-130%
	13C8-PFOS	89%	40-130%
	13C8-FOSA	88%	40-130%
	d3-MeFOSA	84%	10-130%
	d5-EtFOSA	94%	10-130%
	d3-MeFOSAA	87%	40-170%
	d5-EtFOSAA	81%	25-135%
	d7-MeFOSE	102%	10-130%
	d9-EtFOSE	105%	10-130%
	13C2-4:2FTS	94%	40-200%
	13C2-6:2FTS	116%	40-200%
	13C2-8:2FTS	103%	40-300%
	13C3-HFPO-DA	102%	40-130%

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q556-IBLK	2Q42298.D	1	03/24/26	AM	n/a	n/a	T2Q556

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-4, JE30556-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	95%	5-130%
	13C5-PFPeA	92%	40-130%
	13C5-PFHxA	90%	40-130%
	13C4-PFHpA	88%	40-130%
	13C8-PFOA	98%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	100%	30-130%
	13C2-PFDoDA	99%	10-130%
	13C2-PFTeDA	98%	10-130%
	13C3-PFBS	92%	40-135%
	13C3-PFHxS	96%	40-130%
	13C8-PFOS	94%	40-130%
	13C8-FOSA	92%	40-130%
	d3-MeFOSA	90%	10-130%
	d5-EtFOSA	95%	10-130%
	d3-MeFOSAA	83%	40-170%
	d5-EtFOSAA	75%	25-135%
	d7-MeFOSE	95%	10-130%
	d9-EtFOSE	95%	10-130%
	13C2-4:2FTS	102%	40-200%
	13C2-6:2FTS	102%	40-200%
	13C2-8:2FTS	102%	40-300%
	13C3-HFPO-DA	93%	40-130%

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-ICCB	2Q42263.D	1	03/23/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-ICCB	2Q42263.D	1	03/23/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	95%	5-130%
	13C5-PFPeA	95%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	96%	40-130%
	13C8-PFOA	98%	40-130%
	13C9-PFNA	102%	40-130%
	13C6-PFDA	92%	40-130%
	13C7-PFUnDA	94%	30-130%
	13C2-PFDoDA	93%	10-130%
	13C2-PFTeDA	89%	10-130%
	13C3-PFBS	100%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	94%	40-130%
	13C8-FOSA	103%	40-130%
	d3-MeFOSA	93%	10-130%
	d5-EtFOSA	88%	10-130%
	d3-MeFOSAA	56%	40-170%
	d5-EtFOSAA	57%	25-135%
	d7-MeFOSE	96%	10-130%
	d9-EtFOSE	84%	10-130%
	13C2-4:2FTS	84%	40-200%
	13C2-6:2FTS	89%	40-200%
	13C2-8:2FTS	81%	40-300%
	13C3-HFPO-DA	71%	40-130%

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-ICCB	2Q42279.D	1	03/23/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-ICCB	2Q42279.D	1	03/23/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	94%	5-130%
	13C5-PFPeA	97%	40-130%
	13C5-PFHxA	97%	40-130%
	13C4-PFHpA	91%	40-130%
	13C8-PFOA	92%	40-130%
	13C9-PFNA	90%	40-130%
	13C6-PFDA	105%	40-130%
	13C7-PFUnDA	109%	30-130%
	13C2-PFDoDA	104%	10-130%
	13C2-PFTeDA	105%	10-130%
	13C3-PFBS	93%	40-135%
	13C3-PFHxS	97%	40-130%
	13C8-PFOS	100%	40-130%
	13C8-FOSA	91%	40-130%
	d3-MeFOSA	92%	10-130%
	d5-EtFOSA	102%	10-130%
	d3-MeFOSAA	97%	40-170%
	d5-EtFOSAA	94%	25-135%
	d7-MeFOSE	96%	10-130%
	d9-EtFOSE	98%	10-130%
	13C2-4:2FTS	110%	40-200%
	13C2-6:2FTS	114%	40-200%
	13C2-8:2FTS	99%	40-300%
	13C3-HFPO-DA	101%	40-130%

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-ICCB	2Q42290.D	1	03/24/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q555-ICCB	2Q42290.D	1	03/24/26	AM	n/a	n/a	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	94%	5-130%
	13C5-PFPeA	99%	40-130%
	13C5-PFHxA	95%	40-130%
	13C4-PFHpA	93%	40-130%
	13C8-PFOA	95%	40-130%
	13C9-PFNA	100%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	101%	30-130%
	13C2-PFDoDA	95%	10-130%
	13C2-PFTeDA	93%	10-130%
	13C3-PFBS	96%	40-135%
	13C3-PFHxS	98%	40-130%
	13C8-PFOS	84%	40-130%
	13C8-FOSA	86%	40-130%
	d3-MeFOSA	85%	10-130%
	d5-EtFOSA	86%	10-130%
	d3-MeFOSAA	93%	40-170%
	d5-EtFOSAA	87%	25-135%
	d7-MeFOSE	86%	10-130%
	d9-EtFOSE	86%	10-130%
	13C2-4:2FTS	116%	40-200%
	13C2-6:2FTS	107%	40-200%
	13C2-8:2FTS	103%	40-300%
	13C3-HFPO-DA	101%	40-130%

Instrument Blank

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q556-ICCB	2Q42302.D	1	03/24/26	AM	n/a	n/a	T2Q556

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-4, JE30556-5

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	92%	5-130%
	13C5-PFPeA	88%	40-130%
	13C5-PFHxA	92%	40-130%
	13C4-PFHpA	91%	40-130%
	13C8-PFOA	93%	40-130%
	13C9-PFNA	97%	40-130%
	13C6-PFDA	91%	40-130%
	13C7-PFUnDA	96%	30-130%
	13C2-PFDoDA	94%	10-130%
	13C2-PFTeDA	99%	10-130%
	13C3-PFBS	98%	40-135%
	13C3-PFHxS	103%	40-130%
	13C8-PFOS	91%	40-130%
	13C8-FOSA	94%	40-130%
	d3-MeFOSA	85%	10-130%
	d5-EtFOSA	85%	10-130%
	d3-MeFOSAA	54%	40-170%
	d5-EtFOSAA	56%	25-135%
	d7-MeFOSE	91%	10-130%
	d9-EtFOSE	82%	10-130%
	13C2-4:2FTS	95%	40-200%
	13C2-6:2FTS	90%	40-200%
	13C2-8:2FTS	93%	40-300%
	13C3-HFPO-DA	80%	40-130%

Method Blank Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71871-MB	2Q42264.D	1	03/23/26	AM	03/23/26	OP71871	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.0080	0.00093	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.0040	0.00073	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.0020	0.00029	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	0.00055	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	0.00077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	0.00079	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	0.00076	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	0.00066	ug/l	
2706-91-4	Perfluoropentanesulfonic acid	ND	0.0020	0.0010	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
375-92-8	Perfluoroheptanesulfonic acid	ND	0.0020	0.00098	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	
68259-12-1	Perfluorononanesulfonic acid	ND	0.0020	0.0014	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.0020	0.0011	ug/l	
79780-39-5	Perfluorododecanesulfonic aci	ND	0.0020	0.00040	ug/l	
757124-72-4	4:2 Fluorotelomer sulfonate	ND	0.0080	0.0023	ug/l	
27619-97-2	6:2 Fluorotelomer sulfonate	ND	0.0080	0.00091	ug/l	
39108-34-4	8:2 Fluorotelomer sulfonate	ND	0.0080	0.0015	ug/l	
754-91-6	PFOSA	ND	0.0020	0.00069	ug/l	
31506-32-8	MeFOSA	ND	0.0020	0.00064	ug/l	
4151-50-2	EtFOSA	ND	0.0020	0.00053	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	0.00051	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	0.00091	ug/l	
24448-09-7	MeFOSE	ND	0.020	0.0028	ug/l	
1691-99-2	EtFOSE	ND	0.020	0.0038	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	0.0018	ug/l	
919005-14-4	ADONA	ND	0.0080	0.0012	ug/l	
377-73-1	PFMPA	ND	0.0040	0.00030	ug/l	
863090-89-5	PFMBA	ND	0.0040	0.00056	ug/l	
151772-58-6	NFDHA	ND	0.0040	0.0013	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	0.0024	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	0.0018	ug/l	

Method Blank Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71871-MB	2Q42264.D	1	03/23/26	AM	03/23/26	OP71871	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Result	RL	MDL	Units	Q
113507-82-7	PFEESA	ND	0.0040	0.00027	ug/l	
356-02-5	3:3 Fluorotelomer carboxylate	ND	0.010	0.0024	ug/l	
914637-49-3	5:3 Fluorotelomer carboxylate	ND	0.050	0.0071	ug/l	
812-70-4	7:3 Fluorotelomer carboxylate	ND	0.050	0.0062	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	88%	5-130%
	13C5-PFPeA	89%	40-130%
	13C5-PFHxA	84%	40-130%
	13C4-PFHpA	86%	40-130%
	13C8-PFOA	91%	40-130%
	13C9-PFNA	91%	40-130%
	13C6-PFDA	81%	40-130%
	13C7-PFUnDA	91%	30-130%
	13C2-PFDoDA	91%	10-130%
	13C2-PFTeDA	81%	10-130%
	13C3-PFBS	91%	40-135%
	13C3-PFHxS	87%	40-130%
	13C8-PFOS	88%	40-130%
	13C8-FOSA	78%	40-130%
	d3-MeFOSA	72%	10-130%
	d5-EtFOSA	73%	10-130%
	d3-MeFOSAA	62%	40-170%
	d5-EtFOSAA	64%	25-135%
	d7-MeFOSE	79%	10-130%
	d9-EtFOSE	76%	10-130%
	13C2-4:2FTS	87%	40-200%
	13C2-6:2FTS	94%	40-200%
	13C2-8:2FTS	89%	40-300%
	13C3-HFPO-DA	77%	40-130%

Blank Spike Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71871-LLBS	2Q42266.D	1	03/23/26	AM	03/23/26	OP71871	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.016	0.0146	91	70-140
2706-90-3	Perfluoropentanoic acid	0.008	0.0071	89	65-135
307-24-4	Perfluorohexanoic acid	0.004	0.0037	93	70-145
375-85-9	Perfluoroheptanoic acid	0.004	0.0036	90	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0034	85	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0038	95	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0035	88	70-140
2058-94-8	Perfluoroundecanoic acid	0.004	0.0040	100	70-145
307-55-1	Perfluorododecanoic acid	0.004	0.0035	88	70-140
72629-94-8	Perfluorotridecanoic acid	0.004	0.0038	95	65-140
376-06-7	Perfluorotetradecanoic acid	0.004	0.0037	93	60-140
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0029	82	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.00376	0.0031	82	65-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0036	98	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.00381	0.0036	94	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0038	102	55-150
68259-12-1	Perfluorononanesulfonic acid	0.00385	0.0043	112	65-145
335-77-3	Perfluorodecanesulfonic acid	0.00386	0.0041	106	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.00388	0.0039	101	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.015	0.0149	99	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.0152	0.0151	99	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.0154	0.0141	92	60-150
754-91-6	PFOSA	0.004	0.0043	108	70-145
31506-32-8	MeFOSA	0.004	0.0036	90	60-150
4151-50-2	EtFOSA	0.004	0.0030	75	65-145
2355-31-9	MeFOSAA	0.004	0.0045	113	50-140
2991-50-6	EtFOSAA	0.004	0.0042	105	70-145
24448-09-7	MeFOSE	0.04	0.0385	96	70-145
1691-99-2	EtFOSE	0.04	0.0363	91	70-135
13252-13-6	HFPO-DA (GenX)	0.016	0.0156	98	70-140
919005-14-4	ADONA	0.0151	0.0151	100	65-145
377-73-1	PFMPA	0.008	0.0075	94	55-140
863090-89-5	PFMBA	0.008	0.0077	96	60-150
151772-58-6	NFDHA	0.008	0.0087	109	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.015	0.0151	101	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0151	0.0145	96	55-160

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71871-LLBS	2Q42266.D	1	03/23/26	AM	03/23/26	OP71871	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.00712	0.0066	93	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.02	0.0166	83	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.1	0.0885	89	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.1	0.0918	92	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	90%	5-130%
	13C5-PFPeA	90%	40-130%
	13C5-PFHxA	87%	40-130%
	13C4-PFHpA	90%	40-130%
	13C8-PFOA	91%	40-130%
	13C9-PFNA	84%	40-130%
	13C6-PFDA	87%	40-130%
	13C7-PFUnDA	96%	30-130%
	13C2-PFDoDA	93%	10-130%
	13C2-PFTeDA	90%	10-130%
	13C3-PFBS	88%	40-135%
	13C3-PFHxS	81%	40-130%
	13C8-PFOS	83%	40-130%
	13C8-FOSA	72%	40-130%
	d3-MeFOSA	71%	10-130%
	d5-EtFOSA	82%	10-130%
	d3-MeFOSAA	75%	40-170%
	d5-EtFOSAA	70%	25-135%
	d7-MeFOSE	76%	10-130%
	d9-EtFOSE	84%	10-130%
	13C2-4:2FTS	77%	40-200%
	13C2-6:2FTS	83%	40-200%
	13C2-8:2FTS	93%	40-300%
	13C3-HFPO-DA	86%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71871-BS	2Q42267.D	1	03/23/26	AM	03/23/26	OP71871	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-22-4	Perfluorobutanoic acid	0.1	0.0961	96	70-140
2706-90-3	Perfluoropentanoic acid	0.05	0.0486	97	65-135
307-24-4	Perfluorohexanoic acid	0.025	0.0257	103	70-145
375-85-9	Perfluoroheptanoic acid	0.025	0.0258	103	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0227	91	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0231	92	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0274	110	70-140
2058-94-8	Perfluoroundecanoic acid	0.025	0.0238	95	70-145
307-55-1	Perfluorododecanoic acid	0.025	0.0236	94	70-140
72629-94-8	Perfluorotridecanoic acid	0.025	0.0247	99	65-140
376-06-7	Perfluorotetradecanoic acid	0.025	0.0257	103	60-140
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0217	98	60-145
2706-91-4	Perfluoropentanesulfonic acid	0.0235	0.0234	99	65-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0230	101	65-145
375-92-8	Perfluoroheptanesulfonic acid	0.0238	0.0222	93	70-150
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0239	103	55-150
68259-12-1	Perfluorononanesulfonic acid	0.0241	0.0258	107	65-145
335-77-3	Perfluorodecanesulfonic acid	0.0241	0.0219	91	60-145
79780-39-5	Perfluorododecanesulfonic aci	0.0243	0.0247	102	50-145
757124-72-4	4:2 Fluorotelomer sulfonate	0.0938	0.0904	96	70-145
27619-97-2	6:2 Fluorotelomer sulfonate	0.095	0.0918	97	65-155
39108-34-4	8:2 Fluorotelomer sulfonate	0.096	0.0975	102	60-150
754-91-6	PFOSA	0.025	0.0248	99	70-145
31506-32-8	MeFOSA	0.025	0.0235	94	60-150
4151-50-2	EtFOSA	0.025	0.0220	88	65-145
2355-31-9	MeFOSAA	0.025	0.0249	100	50-140
2991-50-6	EtFOSAA	0.025	0.0245	98	70-145
24448-09-7	MeFOSE	0.25	0.250	100	70-145
1691-99-2	EtFOSE	0.25	0.242	97	70-135
13252-13-6	HFPO-DA (GenX)	0.1	0.108	108	70-140
919005-14-4	ADONA	0.0945	0.103	109	65-145
377-73-1	PFMPA	0.05	0.0476	95	55-140
863090-89-5	PFMBA	0.05	0.0488	98	60-150
151772-58-6	NFDHA	0.05	0.0490	98	50-150
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0935	0.106	113	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0945	0.103	109	55-160

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP71871-BS	2Q42267.D	1	03/23/26	AM	03/23/26	OP71871	T2Q555

The QC reported here applies to the following samples: **Method:** EPA 1633

JE30556-1, JE30556-2, JE30556-3, JE30556-4, JE30556-5, JE30556-6, JE30556-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
113507-82-7	PFEESA	0.0445	0.0454	102	70-140
356-02-5	3:3 Fluorotelomer carboxylate	0.125	0.103	82	65-130
914637-49-3	5:3 Fluorotelomer carboxylate	0.625	0.621	99	70-135
812-70-4	7:3 Fluorotelomer carboxylate	0.625	0.626	100	50-145

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	89%	5-130%
	13C5-PFPeA	89%	40-130%
	13C5-PFHxA	86%	40-130%
	13C4-PFHpA	85%	40-130%
	13C8-PFOA	93%	40-130%
	13C9-PFNA	97%	40-130%
	13C6-PFDA	85%	40-130%
	13C7-PFUnDA	98%	30-130%
	13C2-PFDoDA	91%	10-130%
	13C2-PFTeDA	85%	10-130%
	13C3-PFBS	86%	40-135%
	13C3-PFHxS	83%	40-130%
	13C8-PFOS	82%	40-130%
	13C8-FOSA	76%	40-130%
	d3-MeFOSA	75%	10-130%
	d5-EtFOSA	80%	10-130%
	d3-MeFOSAA	79%	40-170%
	d5-EtFOSAA	80%	25-135%
	d7-MeFOSE	78%	10-130%
	d9-EtFOSE	86%	10-130%
	13C2-4:2FTS	82%	40-200%
	13C2-6:2FTS	92%	40-200%
	13C2-8:2FTS	97%	40-300%
	13C3-HFPO-DA	84%	40-130%

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q555-CC552	**Injection Date:**	03/23/26
Lab File ID:	2Q42261.D	**Injection Time:**	13:44
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	45760	3.20	31910	5.79	70684	7.20	24184	7.71	18300	8.20
Check Std [c]	44818	3.19	31288	5.78	67853	7.18	23475	7.71	16108	8.19
Upper Limit [d]	91520	3.59	63820	6.18	141368	7.58	48368	8.11	36600	8.59
Lower Limit [e]	22880	2.79	15955	5.38	35342	6.78	12092	7.31	9150	7.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q555-ICCB	37303	3.20	31510	5.78	67574	7.18	23251	7.71	18315	8.19	1
OP71871-MB	58481	3.20	40294	5.78	86422	7.18	27613	7.71	21691	8.19	1
JE30556-7	53949	3.20	36944	5.78	84704	7.18	28474	7.71	20390	8.19	1
OP71871-LLBS	55856	3.20	38008	5.78	82123	7.18	28977	7.71	20643	8.19	1
OP71871-BS	55996	3.20	38180	5.78	82659	7.18	27376	7.71	21359	8.19	1
OP71871-DUP	51166	3.20	37214	5.78	79127	7.18	27342	7.71	19829	8.19	1
ZZZZZZ	48630	3.20	38701	5.78	86403	7.18	27976	7.71	20455	8.19	1
ZZZZZZ	56791	3.20	42864	5.78	91639	7.18	30466	7.71	24175	8.19	1
ZZZZZZ	47593	3.20	33604	5.78	71402	7.18	25252	7.71	17504	8.19	1
ZZZZZZ	54585	3.20	37744	5.78	82706	7.18	27561	7.71	20133	8.19	1
JE30397-5	50268	3.20	34341	5.78	79606	7.18	25867	7.71	19538	8.19	1
ZZZZZZ	52179	3.20	37670	5.78	85679	7.18	27685	7.71	19416	8.19	1
ZZZZZZ	53653	3.20	36659	5.78	80310	7.18	28015	7.71	19248	8.19	1
JE30556-1	53784	3.20	40479	5.78	84940	7.18	28680	7.71	21664	8.19	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q555-CC552	**Injection Date:**	03/23/26
Lab File ID:	2Q42261.D	**Injection Time:**	13:44
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	6995	7.31	9659	8.37
Check Std [c]	6679	7.30	9762	8.35
Upper Limit [d]	13990	7.70	19318	8.75
Lower Limit [e]	3498	6.90	4830	7.95

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q555-ICCB	6333	7.30	9290	8.35	1
OP71871-MB	8141	7.30	11475	8.35	1
JE30556-7	8314	7.30	11377	8.35	1
OP71871-LLBS	8438	7.30	11793	8.35	1
OP71871-BS	8456	7.30	11411	8.35	1
OP71871-DUP	8161	7.31	11112	8.35	1
ZZZZZZ	7990	7.31	12351	8.35	1
ZZZZZZ	8654	7.30	12965	8.35	1
ZZZZZZ	7645	7.31	10165	8.35	1
ZZZZZZ	8262	7.30	11778	8.35	1
JE30397-5	7590	7.31	10906	8.35	1
ZZZZZZ	8328	7.30	11135	8.35	1
ZZZZZZ	7688	7.31	10905	8.35	1
JE30556-1	8706	7.31	11837	8.35	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q555-CC552	**Injection Date:**	03/23/26
Lab File ID:	2Q42278.D	**Injection Time:**	22:16
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	45760	3.20	31910	5.79	70684	7.20	24184	7.71	18300	8.20
Check Std [c]	45679	3.19	30995	5.78	67959	7.18	23477	7.71	17565	8.19
Upper Limit [d]	91520	3.59	63820	6.18	141368	7.58	48368	8.11	36600	8.59
Lower Limit [e]	22880	2.79	15955	5.38	35342	6.78	12092	7.31	9150	7.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q555-ICCB	44550	3.19	29010	5.78	67862	7.18	22584	7.71	15390	8.19	1
JE30556-2	51688	3.19	36562	5.78	82922	7.18	27072	7.71	19341	8.19	1
JE30556-3	46059	3.20	33851	5.77	74398	7.18	24597	7.71	18618	8.19	1
JE30556-4	45014	3.20	39536	5.77	80643	7.18	28249	7.71	20197	8.19	1
JE30556-5	45813	3.19	37062	5.77	75894	7.18	25579	7.71	20261	8.19	1
JE30556-6	55497	3.20	35124	5.78	78891	7.18	26151	7.71	21353	8.19	1
ZZZZZZ	52389	3.20	33624	5.78	76746	7.18	26459	7.71	19610	8.19	1
ZZZZZZ	52572	3.20	34223	5.78	80516	7.18	26205	7.71	19074	8.19	1
ZZZZZZ	52542	3.20	35936	5.78	76601	7.18	25389	7.71	19250	8.19	1
ZZZZZZ	51552	3.20	34409	5.78	79010	7.18	25866	7.71	18047	8.19	1
T2Q555-ECC552	45159	3.19	28838	5.78	66417	7.18	22150	7.71	15882	8.19	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q555-CC552	**Injection Date:**	03/23/26
Lab File ID:	2Q42278.D	**Injection Time:**	22:16
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	6995	7.31	9659	8.37
Check Std [c]	6477	7.31	9579	8.35
Upper Limit [d]	13990	7.71	19318	8.75
Lower Limit [e]	3498	6.91	4830	7.95

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q555-ICCB	6530	7.30	8822	8.35	1
JE30556-2	8209	7.30	11254	8.35	1
JE30556-3	7047	7.30	10157	8.35	1
JE30556-4	8262	7.30	11898	8.35	1
JE30556-5	7670	7.30	11659	8.35	1
JE30556-6	7912	7.30	11641	8.35	1
ZZZZZZ	7373	7.31	11394	8.35	1
ZZZZZZ	7048	7.30	10537	8.35	1
ZZZZZZ	8076	7.31	10765	8.35	1
ZZZZZZ	7374	7.30	11237	8.35	1
T2Q555-ECC552	6715	7.30	9799	8.35	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q556-CC552	**Injection Date:**	03/24/26
Lab File ID:	2Q42299.D	**Injection Time:**	11:30
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	45760	3.20	31910	5.79	70684	7.20	24184	7.71	18300	8.20
Check Std [c]	47658	3.19	31060	5.77	72719	7.18	24506	7.71	17773	8.19
Upper Limit [d]	91520	3.59	63820	6.17	141368	7.58	48368	8.11	36600	8.59
Lower Limit [e]	22880	2.79	15955	5.37	35342	6.78	12092	7.31	9150	7.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q556-ICCB	38152	3.20	31590	5.77	67236	7.18	24087	7.69	17071	8.19	1
JE30556-6 [f]	53350	3.19	40205	5.77	76825	7.18	27300	7.69	21525	8.18	5
JE30556-5	51422	3.19	37858	5.77	80264	7.18	28006	7.69	21904	8.18	2
JE30556-4	49554	3.19	31880	5.77	73512	7.18	23466	7.69	19118	8.19	2
ZZZZZZ	53354	3.20	34524	5.78	78133	7.18	25968	7.71	18999	8.19	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.
(f) Confirmation run.

Injection Standard Area Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q556-CC552	**Injection Date:**	03/24/26
Lab File ID:	2Q42299.D	**Injection Time:**	11:30
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	6995	7.31	9659	8.37
Check Std [c]	7605	7.30	10634	8.35
Upper Limit [d]	13990	7.70	19318	8.75
Lower Limit [e]	3498	6.90	4830	7.95

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q556-ICCB	5894	7.30	9590	8.35	1
JE30556-6 [f]	7700	7.30	10950	8.35	5
JE30556-5	8304	7.30	11664	8.34	2
JE30556-4	7152	7.30	9968	8.35	2
ZZZZZZ	7815	7.30	10810	8.35	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q552-ICC552 2Q42139.D 03/19/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.
(f) Confirmation run.

Isotope Dilution Standard Recovery Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JE30556-1	2Q42277.D	85	77	78	77	82	79	80	82
JE30556-2	2Q42280.D	86	82	78	76	76	82	75	81
JE30556-3	2Q42281.D	87	83	85	81	80	80	76	88
JE30556-4	2Q42305.D	85	89	84	82	80	82	76	80
JE30556-4	2Q42282.D	88	87	88	80	88	92	83	93
JE30556-5	2Q42304.D	87	89	93	83	89	89	75	82
JE30556-5	2Q42283.D	82	88	86	83	87	93	84	86
JE30556-6	2Q42303.D	80	81	79	75	85	101	83	77
JE30556-6	2Q42284.D	6	31* [a]	85	88	88	94	83	86
JE30556-7	2Q42265.D	9	81	85	80	82	81	74	80
OP71871-BS	2Q42267.D	89	89	86	85	93	97	85	98
OP71871-LLBS	2Q42266.D	90	90	87	90	91	84	87	96
OP71871-MB	2Q42264.D	88	89	84	86	91	91	81	91
T2Q552-IBLK	2Q42144.D	94	97	96	93	97	93	100	106
T2Q555-IBLK	2Q42260.D	95	94	89	89	100	95	90	104
T2Q555-ICCB	2Q42263.D	95	95	99	96	98	102	92	94
T2Q555-ICCB	2Q42279.D	94	97	97	91	92	90	105	109
T2Q555-ICCB	2Q42290.D	94	99	95	93	95	100	98	101
T2Q556-IBLK	2Q42298.D	95	92	90	88	98	101	98	100
T2Q556-ICCB	2Q42302.D	92	88	92	91	93	97	91	96

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFBA	5-130%
S2 = 13C5-PFPeA	40-130%
S3 = 13C5-PFHxA	40-130%
S4 = 13C4-PFHpA	40-130%
S5 = 13C8-PFOA	40-130%
S6 = 13C9-PFNA	40-130%
S7 = 13C6-PFDA	40-130%
S8 = 13C7-PFUnDA	30-130%

(a) Outside control limits.

Isotope Dilution Standard Recovery Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14	S15	S16
JE30556-1	2Q42277.D	83	71	83	84	90	82	73	71
JE30556-2	2Q42280.D	74	64	76	82	76	74	65	63
JE30556-3	2Q42281.D	79	65	82	84	80	78	68	72
JE30556-4	2Q42305.D	78	72	93	81	95	77	73	73
JE30556-4	2Q42282.D	81	81	90	89	74	77	68	69
JE30556-5	2Q42304.D	74	63	91	81	91	76	63	71
JE30556-5	2Q42283.D	82	80	82	91	80	74	68	72
JE30556-6	2Q42303.D	75	72	73	90	87	78	71	79
JE30556-6	2Q42284.D	84	77	94	90	84	78	83	82
JE30556-7	2Q42265.D	72	46	71	82	80	75	74	78
OP71871-BS	2Q42267.D	91	85	86	83	82	76	75	80
OP71871-LLBS	2Q42266.D	93	90	88	81	83	72	71	82
OP71871-MB	2Q42264.D	91	81	91	87	88	78	72	73
T2Q552-IBLK	2Q42144.D	101	106	96	98	93	92	97	95
T2Q555-IBLK	2Q42260.D	98	87	97	94	89	88	84	94
T2Q555-ICCB	2Q42263.D	93	89	100	99	94	103	93	88
T2Q555-ICCB	2Q42279.D	104	105	93	97	100	91	92	102
T2Q555-ICCB	2Q42290.D	95	93	96	98	84	86	85	86
T2Q556-IBLK	2Q42298.D	99	98	92	96	94	92	90	95
T2Q556-ICCB	2Q42302.D	94	99	98	103	91	94	85	85

Isotope Dilution Standards	Recovery Limits
S9 = 13C2-PFDoDA	10-130%
S10 = 13C2-PFTeDA	10-130%
S11 = 13C3-PFBS	40-135%
S12 = 13C3-PFHxS	40-130%
S13 = 13C8-PFOS	40-130%
S14 = 13C8-FOSA	40-130%
S15 = d3-MeFOSA	10-130%
S16 = d5-EtFOSA	10-130%

Isotope Dilution Standard Recovery Summary

Job Number: JE30556
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S17	S18	S19	S20	S21	S22	S23	S24
JE30556-1	2Q42277.D	75	67	84	78	78	79	91	80
JE30556-2	2Q42280.D	76	72	75	63	80	95	94	80
JE30556-3	2Q42281.D	78	73	80	76	90	89	103	86
JE30556-4	2Q42305.D	75	71	80	79	105	113	89	85
JE30556-4	2Q42282.D	77	72	91	78	80	103	113	82
JE30556-5	2Q42304.D	75	73	89	77	99	107	102	90
JE30556-5	2Q42283.D	83	77	79	73	94	115	105	75
JE30556-6	2Q42303.D	71	39	77	73	100	103	89	78
JE30556-6	2Q42284.D	89	87	73	78	86	102	104	91
JE30556-7	2Q42265.D	58	57	78	75	78	71	90	83
OP71871-BS	2Q42267.D	79	80	78	86	82	92	97	84
OP71871-LLBS	2Q42266.D	75	70	76	84	77	83	93	86
OP71871-MB	2Q42264.D	62	64	79	76	87	94	89	77
T2Q552-IBLK	2Q42144.D	97	97	96	99	123	114	109	91
T2Q555-IBLK	2Q42260.D	87	81	102	105	94	116	103	102
T2Q555-ICCB	2Q42263.D	56	57	96	84	84	89	81	71
T2Q555-ICCB	2Q42279.D	97	94	96	98	110	114	99	101
T2Q555-ICCB	2Q42290.D	93	87	86	86	116	107	103	101
T2Q556-IBLK	2Q42298.D	83	75	95	95	102	102	102	93
T2Q556-ICCB	2Q42302.D	54	56	91	82	95	90	93	80

Isotope Dilution Standards	Recovery Limits
S17 = d3-MeFOSAA	40-170%
S18 = d5-EtFOSAA	25-135%
S19 = d7-MeFOSE	10-130%
S20 = d9-EtFOSE	10-130%
S21 = 13C2-4:2FTS	40-200%
S22 = 13C2-6:2FTS	40-200%
S23 = 13C2-8:2FTS	40-300%
S24 = 13C3-HFPO-DA	40-130%

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE32187

Sampling Date: 04/14/26



Report to:

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Total number of pages in report: 77

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE32187

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the RL							
JE32187-1	04/14/26	11:20	CB	04/14/26	AQ	Influent	INFLUENT
JE32187-1A	04/14/26	11:20	CB	04/14/26	AQ	Influent	INFLUENT
JE32187-2	04/14/26	11:55	CB	04/14/26	AQ	Effluent	EFFLUENT
JE32187-2A	04/14/26	11:55	CB	04/14/26	AQ	Effluent	EFFLUENT
JE32187-3	04/14/26	11:35	CB	04/14/26	AQ	Water	MID
JE32187-4	04/14/26	11:55	CB	04/14/26	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech **Job No:** JE32187

Site: HVEC, 3 Van de Graaf Dr, Burlington, MA **Report Date** 5/1/2026 2:13:34 PM

On 04/14/2026, 3 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 1.7 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE32187 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V2R813

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** V4D6552

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- V4D6552-MB for Toluene-D8 (SUR): Outside of in house control limits, but within reasonable method recovery limits.
- V4D6552-BSD for Toluene-D8 (SUR): Outside of in house control limits, but within reasonable method recovery limits.
- V4D6552-BS for Toluene-D8 (SUR): Outside of in house control limits, but within reasonable method recovery limits.
- JE32187-4 for Toluene-D8 (SUR): Outside of in house control limits, but within reasonable method recovery limits.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP72788

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP72565A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP61424

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE32118-1SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Selenium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP61442

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP61444

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP69395

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 180.1

Matrix: AQ **Batch ID:** GN81893

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP69467

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP69419

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 420.4/LACHAT

Matrix: AQ **Batch ID:** GP69441

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2340 C-11/21

Matrix: AQ **Batch ID:** GN82015

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 C-15/20

Matrix: AQ **Batch ID:** GN81936

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 D-15/20

Matrix: AQ **Batch ID:** GN82033

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM4500NH3 H-11/21LAC

Matrix: AQ **Batch ID:** GP69445

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SW846 6010/7196A M

Matrix: AQ **Batch ID:** R222913

- The data for SW846 6010/7196A M meets quality control requirements.
- JE32187-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix: AQ **Batch ID:** R222914

- The data for SW846 6010/7196A M meets quality control requirements.
- JE32187-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

General Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN81876

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE32187
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 04/14/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE32187-1	**INFLUENT**					
1,1-Dichloroethane		4.4	1.0		ug/l	EPA 624.1
1,1-Dichloroethene		17.5	1.0		ug/l	EPA 624.1
cis-1,2-Dichloroethene		1.1	1.0		ug/l	EPA 624.1
Tetrachloroethene		185	1.0		ug/l	EPA 624.1
1,1,1-Trichloroethane		83.7	1.0		ug/l	EPA 624.1
Trichloroethene		5.5	1.0		ug/l	EPA 624.1
Calcium		225000	10000		ug/l	EPA 200.7
Magnesium		75100	5000		ug/l	EPA 200.7
Chloride		711	8.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		976	5.0		mg/l	SM2340 C-11/21
Solids, Total Dissolved		2550	10		mg/l	SM2540 C-15/20
JE32187-1A	**INFLUENT**					
Perfluoroheptanoic acid		0.0395	0.0018		ug/l	EPA 1633
Perfluorooctanoic acid		0.0840	0.0018		ug/l	EPA 1633
Perfluorononanoic acid		0.0754	0.0018		ug/l	EPA 1633
Perfluorodecanoic acid		0.0294	0.0018		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0034	0.0018		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0254	0.0018		ug/l	EPA 1633
JE32187-2	**EFFLUENT**					
Calcium		227000	10000		ug/l	EPA 200.7
Magnesium		76000	5000		ug/l	EPA 200.7
Chloride		703	8.0		mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		927	5.0		mg/l	SM2340 C-11/21
Solids, Total Dissolved		2150	10		mg/l	SM2540 C-15/20
JE32187-2A	**EFFLUENT**					
Perfluoroheptanoic acid		0.0254	0.0018		ug/l	EPA 1633
Perfluorooctanoic acid		0.0538	0.0018		ug/l	EPA 1633
Perfluorononanoic acid		0.0393	0.0018		ug/l	EPA 1633
Perfluorodecanoic acid		0.0167	0.0018		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0032	0.0018		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0164	0.0018		ug/l	EPA 1633
JE32187-3	**MID**					
Perfluoroheptanoic acid		0.0321	0.0019		ug/l	EPA 1633
Perfluorooctanoic acid		0.0680	0.0019		ug/l	EPA 1633
Perfluorononanoic acid		0.0583	0.0019		ug/l	EPA 1633

Summary of Hits

Job Number: JE32187
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 04/14/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perfluorodecanoic acid		0.0236	0.0019		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0032	0.0019		ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0194	0.0019		ug/l	EPA 1633

JE32187-4 **TRIP BLANK**

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE32187-1
Matrix: AQ - Influent
Method: EPA 624.1
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2R27867.D	1	04/17/26 16:30	NW	n/a	n/a	V2R813
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	4.4	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	17.5	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.1	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	185	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	83.7	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	5.5	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	111%		80-128%
2037-26-5	Toluene-D8 (SUR)	98%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	102%		79-117%
1868-53-7	Dibromofluoromethane (S)	114%		84-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE32187-1
Matrix: AQ - Influent
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z179378.D	1	04/21/26 16:34	RS	04/16/26 09:30	OP72565A	EZ8810
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	30%		29-124%
321-60-8	2-Fluorobiphenyl	30%		23-122%
1718-51-0	Terphenyl-d14	71%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE32187-1
Matrix: AQ - Influent
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Arsenic	< 1.0	1.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Cadmium	< 0.50	0.50	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Calcium	225000	10000	ug/l	2	04/16/26	04/21/26	LM	EPA 200.7 [4]	EPA 200.7 [5]
Chromium	< 4.0	4.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Copper	< 4.0	4.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Iron	< 100	100	ug/l	1	04/16/26	04/21/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Lead	< 0.50	0.50	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Magnesium	75100	5000	ug/l	1	04/16/26	04/21/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	< 0.20	0.20	ug/l	1	04/16/26	04/16/26	MK	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	< 4.0	4.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Selenium	< 10	10	ug/l	1	04/16/26	04/21/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	< 2.0	2.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Zinc	< 10	10	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]

(1) Instrument QC Batch: MA60652
(2) Instrument QC Batch: MA60657
(3) Instrument QC Batch: MA60676
(4) Instrument QC Batch: MA60685
(5) Prep QC Batch: MP61424
(6) Prep QC Batch: MP61442
(7) Prep QC Batch: MP61444

RL = Reporting Limit

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE32187-1
Matrix: AQ - Influent
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	711	8.0	mg/l	4	04/20/26 12:07	SS	EPA 300/SW846 9056A
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	04/15/26 09:40	LV	SW846 7196A
Chromium, Trivalent [a]	< 0.014	0.014	mg/l	1	04/16/26 16:13	NV	SW846 6010/7196A M
Cyanide	< 0.010	0.010	mg/l	1	04/16/26 16:55	JD	EPA 335.4/LACHAT
Hardness, Total as CaCO3	976	5.0	mg/l	1	04/17/26 15:42	MS	SM2340 C-11/21
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	04/17/26 15:16	JD	SM4500NH3 H-11/21LAC
Phenols	< 0.20	0.20	mg/l	1	04/23/26 18:21	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	2550	10	mg/l	1	04/16/26 17:00	SD	SM2540 C-15/20
Solids, Total Suspended	< 4.0	4.0	mg/l	1	04/17/26 17:00	JL	SM2540 D-15/20
Turbidity	< 0.30	0.30	NTU	1	04/15/26 13:20	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE32187-1A
Matrix: AQ - Influent
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q68798.D	1	04/23/26 20:19	AM	04/22/26 18:00	OP72788	T6Q327
Run #2							

	Initial Volume	Final Volume
Run #1	559 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-85-9	Perfluoroheptanoic acid	0.0395	0.0018	ug/l	
335-67-1	Perfluorooctanoic acid	0.0840	0.0018	ug/l	
375-95-1	Perfluorononanoic acid	0.0754	0.0018	ug/l	
335-76-2	Perfluorodecanoic acid	0.0294	0.0018	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
355-46-4	Perfluorohexanesulfonic acid	0.0034	0.0018	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0254	0.0018	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	80%		40-130%
	13C8-PFOA	86%		40-130%
	13C9-PFNA	83%		40-130%
	13C6-PFDA	80%		40-130%
	13C3-PFHxS	85%		40-130%
	13C8-PFOS	91%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE32187-2
Matrix: AQ - Effluent
Method: EPA 624.1
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2R27869.D	1	04/17/26 17:03	NW	n/a	n/a	V2R813
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	108%		80-128%
2037-26-5	Toluene-D8 (SUR)	100%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	104%		79-117%
1868-53-7	Dibromofluoromethane (S)	110%		84-121%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE32187-2
Matrix: AQ - Effluent
Method: SW846 8270E BY SIM SW846 3510C
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z179379.D	1	04/21/26 17:00	RS	04/16/26 09:30	OP72565A	EZ8810
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	35%		29-124%
321-60-8	2-Fluorobiphenyl	38%		23-122%
1718-51-0	Terphenyl-d14	68%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE32187-2
Matrix: AQ - Effluent
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.0	2.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Arsenic	< 1.0	1.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Cadmium	< 0.50	0.50	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Calcium	227000	10000	ug/l	2	04/16/26	04/21/26	LM	EPA 200.7 [4]	EPA 200.7 [5]
Chromium	< 4.0	4.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Copper	< 4.0	4.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Iron	< 100	100	ug/l	1	04/16/26	04/21/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Lead	< 0.50	0.50	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Magnesium	76000	5000	ug/l	1	04/16/26	04/21/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Mercury	< 0.20	0.20	ug/l	1	04/16/26	04/16/26	MK	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	< 4.0	4.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Selenium	< 10	10	ug/l	1	04/16/26	04/21/26	LM	EPA 200.7 [3]	EPA 200.7 [5]
Silver	< 2.0	2.0	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]
Zinc	< 10	10	ug/l	1	04/16/26	04/16/26	NV	EPA 200.8 [2]	EPA 200.8 [6]

(1) Instrument QC Batch: MA60652
(2) Instrument QC Batch: MA60657
(3) Instrument QC Batch: MA60676
(4) Instrument QC Batch: MA60685
(5) Prep QC Batch: MP61424
(6) Prep QC Batch: MP61442
(7) Prep QC Batch: MP61444

RL = Reporting Limit

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE32187-2
Matrix: AQ - Effluent
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	703	8.0	mg/l	4	04/20/26 12:19	SS	EPA 300/SW846 9056A
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	04/15/26 09:47	LV	SW846 7196A
Chromium, Trivalent [a]	< 0.014	0.014	mg/l	1	04/16/26 16:09	NV	SW846 6010/7196A M
Cyanide	< 0.010	0.010	mg/l	1	04/16/26 16:56	JD	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbons	< 5.0	5.0	mg/l	1	04/15/26 16:00	JL	EPA 1664A
Hardness, Total as CaCO3	927	5.0	mg/l	1	04/17/26 15:42	MS	SM2340 C-11/21
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	04/17/26 15:17	JD	SM4500NH3 H-11/21LAC
Phenols	< 0.20	0.20	mg/l	1	04/23/26 18:22	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	2150	10	mg/l	1	04/16/26 17:00	SD	SM2540 C-15/20
Solids, Total Suspended	< 4.0	4.0	mg/l	1	04/17/26 17:00	JL	SM2540 D-15/20
Turbidity	< 0.30	0.30	NTU	1	04/15/26 13:20	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE32187-2A	**Date Sampled:**	04/14/26
Matrix:	AQ - Effluent	**Date Received:**	04/14/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q43525.D	1	04/22/26 22:47	AM	04/22/26 18:00	OP72788	T2Q578
Run #2							

	Initial Volume	Final Volume
Run #1	564 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-85-9	Perfluoroheptanoic acid	0.0254	0.0018	ug/l	
335-67-1	Perfluorooctanoic acid	0.0538	0.0018	ug/l	
375-95-1	Perfluorononanoic acid	0.0393	0.0018	ug/l	
335-76-2	Perfluorodecanoic acid	0.0167	0.0018	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
355-46-4	Perfluorohexanesulfonic acid	0.0032	0.0018	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0164	0.0018	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	92%		40-130%
	13C8-PFOA	93%		40-130%
	13C9-PFNA	99%		40-130%
	13C6-PFDA	93%		40-130%
	13C3-PFHxS	93%		40-130%
	13C8-PFOS	86%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID
Lab Sample ID: JE32187-3
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 04/14/26
Date Received: 04/14/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q68795.D	1	04/23/26 19:34	AM	04/22/26 18:00	OP72788	T6Q327
Run #2							

	Initial Volume	Final Volume
Run #1	522 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
375-85-9	Perfluoroheptanoic acid	0.0321	0.0019	ug/l	
335-67-1	Perfluorooctanoic acid	0.0680	0.0019	ug/l	
375-95-1	Perfluorononanoic acid	0.0583	0.0019	ug/l	
335-76-2	Perfluorodecanoic acid	0.0236	0.0019	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
355-46-4	Perfluorohexanesulfonic acid	0.0032	0.0019	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0194	0.0019	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	81%		40-130%
	13C8-PFOA	85%		40-130%
	13C9-PFNA	83%		40-130%
	13C6-PFDA	76%		40-130%
	13C3-PFHxS	81%		40-130%
	13C8-PFOS	80%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE32187-4	**Date Sampled:**	04/14/26
Matrix:	AQ - Trip Blank Water	**Date Received:**	04/14/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D1450140.D	1	04/16/26 11:37	LA	n/a	n/a	V4D6552
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	111%		80-128%
2037-26-5	Toluene-D8 (SUR)	119% [a]		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	112%		79-117%
1868-53-7	Dibromofluoromethane (S)	105%		84-121%

(a) Outside of in house control limits, but within reasonable method recovery limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certification Exceptions

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		**SW846 6010/7196A M**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-04-FORM-Standard COC

JE32187

FED-EX Tracking #: | Bottle Order Control #: PLEM-TF-031126-171
SGS Quote #: | SGS Job #:

Client / Reporting Information

Company Name: Tetra Tech Inc.
Street Address: 100 Nickerson Road
City / State / Zip: Marlborough, MA 01752
Project Contact / E-mail: Cullen Bryant / cullen.bryant@tetratech.com
Phone #: 857.272.3511
Sampler(s) Name(s) / Phone #:

Project Information

Project Name: HVEC - Burlington 3VDG
Street: 3 Van DeGraff Dr
City / State: Burlington MA
Project #: 117-367085-25001
Client Purchase Order #:
Project Manager: Cullen Bryant

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of bottles: HCl	NaOH+ASC	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	AMN	CHL, XCR, TURB, TDS, CR3R	PN	TSS	V624SL1	BLV8270SIM14DIOX	CN	AGMS,ASMS,CA,CDMS,CRMS,CUMS,FE,HG,HRD,MG,NIMS,PBMS,SBMS,SE,ZNMS	PHC1664	LCID1633MA6	LAB USE ONLY
1	INFLUENT		4/14/26	11:20	CB	G	N	WW	17	4	1	1	2	9					1	2	1	2	4	2	1	1		3	
2	EFFLUENT		4/14/26	11:50	CB	G	N	WW	19	6	1	1	2	9					1	2	1	2	4	2	1	1	2	3	
3	MID		4/14/26	11:35	CB	G	N	WW	3					3														3	
4	TRIP BLANK		4/14/26			G		DI	2	2													2						

SGS Service Center
Northborough, MA
4/14

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other
All data available via Labilink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [x] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DDD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

4/14 SGS Courier

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by: 1 Cullen Bryant	Date / Time: 4/14/26 1245	Received By: 1	Relinquished By: 2	Date / Time: 4-14-26 2045	Received By: 2
Relinquished by: 3	Date / Time: 4-15-26 1340	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	Intact / Not Intact / Absent	Therm ID: On Ice / See Sample Receipt Summary — Cooler Temp. °C: 2.7

SGS Sample Receipt Summary

Job Number: JE32187 **Client:** TETRA TECH **Project:** HVEC - MONTHLY RGP , 3 VAN DE GRAA

Date / Time Received: 4/14/2026 8:45:00 PM **Delivery Method:** SGS **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.7);

Cooler Temps (Corrected) °C: Cooler 1: (1.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE32187
Project Location:	HVEC, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE32187-1,JE32187-1A,JE32187-2,JE32187-2A,JE32187-3,JE32187-4

Matrices: Groundwater/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC (X) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

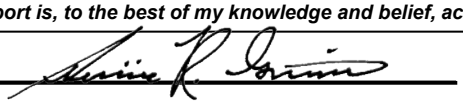
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑	Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑	Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑	Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑	Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ ☐	Yes Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑	Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑	Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.			
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑	Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐	Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **01-May-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE32187

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE32187-1	Collected: 14-APR-26 11:20 By: CB		Received: 14-APR-26 By: KG			
INFLUENT						
JE32187-1	SW846 7196A	15-APR-26 09:40	LV			XCR
JE32187-1	EPA 180.1	15-APR-26 13:20	DB			TURB
JE32187-1	EPA 245.1	16-APR-26 12:25	MK	16-APR-26	MK	HG
JE32187-1	EPA 200.8	16-APR-26 16:13	NV	16-APR-26	SK	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE32187-1	SW846 6010/7196A M	16-APR-26 16:13	NV			CR3R
JE32187-1	EPA 335.4/LACHAT	16-APR-26 16:55	JD	16-APR-26	BV	CN
JE32187-1	SM2540 C-15/20	16-APR-26 17:00	SD			TDS
JE32187-1	SM4500NH3 H-11/21LAC	17-APR-26 15:16	JD	17-APR-26	JD	AMN
JE32187-1	SM2340 C-11/21	17-APR-26 15:42	MS			HRD
JE32187-1	EPA 624.1	17-APR-26 16:30	NW			V624SL1
JE32187-1	SM2540 D-15/20	17-APR-26 17:00	JL			TSS
JE32187-1	EPA 300/SW846 9056A	20-APR-26 12:07	SS	17-APR-26	SS	CHL
JE32187-1	EPA 200.7	21-APR-26 05:27	LM	16-APR-26	SK	FE,MG,SE
JE32187-1	EPA 200.7	21-APR-26 15:08	LM	16-APR-26	SK	CA
JE32187-1	SW846 8270E BY SIM	21-APR-26 16:34	RS	16-APR-26	BD	BLV8270SIM14DIOX
JE32187-1	EPA 420.4/LACHAT	23-APR-26 18:21	JD	17-APR-26	BV	PN
JE32187-2	Collected: 14-APR-26 11:55 By: CB		Received: 14-APR-26 By: KG			
EFFLUENT						
JE32187-2	SW846 7196A	15-APR-26 09:47	LV			XCR
JE32187-2	EPA 180.1	15-APR-26 13:20	DB			TURB
JE32187-2	EPA 1664A	15-APR-26 16:00	JL	15-APR-26	JL	PHC1664
JE32187-2	EPA 245.1	16-APR-26 12:27	MK	16-APR-26	MK	HG
JE32187-2	EPA 200.8	16-APR-26 16:09	NV	16-APR-26	SK	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE32187-2	SW846 6010/7196A M	16-APR-26 16:09	NV			CR3R
JE32187-2	EPA 335.4/LACHAT	16-APR-26 16:56	JD	16-APR-26	BV	CN
JE32187-2	SM2540 C-15/20	16-APR-26 17:00	SD			TDS
JE32187-2	SM4500NH3 H-11/21LAC	17-APR-26 15:17	JD	17-APR-26	JD	AMN
JE32187-2	SM2340 C-11/21	17-APR-26 15:42	MS			HRD
JE32187-2	SM2540 D-15/20	17-APR-26 17:00	JL			TSS
JE32187-2	EPA 624.1	17-APR-26 17:03	NW			V624SL1
JE32187-2	EPA 300/SW846 9056A	20-APR-26 12:19	SS	17-APR-26	SS	CHL
JE32187-2	EPA 200.7	21-APR-26 05:32	LM	16-APR-26	SK	FE,MG,SE
JE32187-2	EPA 200.7	21-APR-26 15:13	LM	16-APR-26	SK	CA

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE32187

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE32187-2	SW846 8270E BY SIM	21-APR-26 17:00	RS	16-APR-26	BD	BLV8270SIM14DIOX
JE32187-2	EPA 420.4/LACHAT	23-APR-26 18:22	JD	17-APR-26	BV	PN
JE32187-3	Collected: 14-APR-26 11:35 By: CB			Received: 14-APR-26	By:	KG
MID						
JE32187-3	EPA 1633	23-APR-26 19:34	AM	22-APR-26	DC	LCID1633MA6
JE32187-4	Collected: 14-APR-26 11:55 By: CB			Received: 14-APR-26	By:	KG
TRIP BLANK						
JE32187-4	EPA 624.1	16-APR-26 11:37	LA			V624SL1
JE32187-1A	Collected: 14-APR-26 11:20 By: CB			Received: 14-APR-26	By:	KG
INFLUENT						
JE32187-1A	EPA 1633	23-APR-26 20:19	AM	22-APR-26	DC	LCID1633MA6
JE32187-2A	Collected: 14-APR-26 11:55 By: CB			Received: 14-APR-26	By:	KG
EFFLUENT						
JE32187-2A	EPA 1633	22-APR-26 22:47	AM	22-APR-26	DC	LCID1633MA6

QC Evaluation: MA MCP Limits

Job Number: JE32187
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 04/14/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP72565A	SW846 8270E BY SIM						
OP72565A-BS12	123-91-1	1,4-Dioxane	BSP	REC	38	%	40-140
OP72565A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	28	%	30-130
OP72565A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	27	%	30-130
OP72565A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	72	%	30-130
OP72565A-BSD12	123-91-1	1,4-Dioxane	BSD	REC	39	%	40-140
OP72565A-BSD12	123-91-1	1,4-Dioxane	BSD	RPD	5	%	30
OP72565A-BSD12	4165-60-0	Nitrobenzene-d5	BSD	SURR	32	%	30-130
OP72565A-BSD12	321-60-8	2-Fluorobiphenyl	BSD	SURR	30	%	30-130
OP72565A-BSD12	1718-51-0	Terphenyl-d14	BSD	SURR	69	%	30-130
OP72565A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	51	%	30-130
OP72565A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	50	%	30-130
OP72565A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	70	%	30-130
JE32187-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	30	%	30-130
JE32187-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	30	%	30-130
JE32187-1	1718-51-0	Terphenyl-d14	SAMP	SURR	71	%	30-130
JE32187-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	35	%	30-130
JE32187-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	38	%	30-130
JE32187-2	1718-51-0	Terphenyl-d14	SAMP	SURR	68	%	30-130

* Sample used for QC is not from job JE32187

MS Volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D6552-MB	4D1450139.D	1	04/16/26	LA	n/a	n/a	V4D6552

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE32187-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109%	80-128%
2037-26-5	Toluene-D8 (SUR)	120%* [a]	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	114%	79-117%
1868-53-7	Dibromofluoromethane (S)	105%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) Outside of in house control limits, but within reasonable method recovery limits.

Method Blank Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2R813-MB	2R27853.D	1	04/17/26	NW	n/a	n/a	V2R813

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE32187-1, JE32187-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	109%	80-128%
2037-26-5	Toluene-D8 (SUR)	98%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	99%	79-117%
1868-53-7	Dibromofluoromethane (S)	111%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D6552-BS	4D1450137.D	1	04/16/26	LA	n/a	n/a	V4D6552
V4D6552-BSD	4D1450138.D	1	04/16/26	LA	n/a	n/a	V4D6552

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE32187-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	72.4	91	77.1	96	6	26-198/39
71-43-2	Benzene	20	17.4	87	18.3	92	5	65-135/11
56-23-5	Carbon tetrachloride	20	17.4	87	17.9	90	3	70-130/13
95-50-1	1,2-Dichlorobenzene	20	18.9	95	20.2	101	7	65-135/12
541-73-1	1,3-Dichlorobenzene	20	19.0	95	20.0	100	5	70-130/12
106-46-7	1,4-Dichlorobenzene	20	19.0	95	20.0	100	5	65-135/12
75-34-3	1,1-Dichloroethane	20	18.8	94	19.2	96	2	70-130/12
107-06-2	1,2-Dichloroethane	20	18.2	91	19.1	96	5	70-130/11
75-35-4	1,1-Dichloroethene	20	16.5	83	16.7	84	1	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	17.3	87	17.9	90	3	72-116/12
100-41-4	Ethylbenzene	20	18.9	95	19.6	98	4	60-140/11
75-09-2	Methylene chloride	20	16.5	83	16.6	83	1	60-140/14
127-18-4	Tetrachloroethene	20	20.8	104	21.6	108	4	70-130/18
108-88-3	Toluene	20	19.4	97	20.0	100	3	70-130/13
71-55-6	1,1,1-Trichloroethane	20	16.9	85	17.8	89	5	70-130/12
79-00-5	1,1,2-Trichloroethane	20	17.9	90	18.5	93	3	70-130/14
79-01-6	Trichloroethene	20	18.5	93	19.6	98	6	65-135/13
75-01-4	Vinyl chloride	20	10.2	51	10.2	51	0	50-150/14
	m,p-Xylene	40	37.6	94	38.7	97	3	78-115/11
95-47-6	o-Xylene	20	18.5	93	19.2	96	4	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	111%	112%	80-128%
2037-26-5	Toluene-D8 (SUR)	118%* [a]	119%* [a]	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	110%	110%	79-117%
1868-53-7	Dibromofluoromethane (S)	105%	105%	84-121%

(a) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2R813-BS	2R27849.D	1	04/17/26	NW	n/a	n/a	V2R813
V2R813-BSD	2R27851.D	1	04/17/26	NW	n/a	n/a	V2R813

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE32187-1, JE32187-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	101	126	93.0	116	8	26-198/39
71-43-2	Benzene	20	20.1	101	19.4	97	4	65-135/11
56-23-5	Carbon tetrachloride	20	20.8	104	20.1	101	3	70-130/13
95-50-1	1,2-Dichlorobenzene	20	20.7	104	20.7	104	0	65-135/12
541-73-1	1,3-Dichlorobenzene	20	20.9	105	20.5	103	2	70-130/12
106-46-7	1,4-Dichlorobenzene	20	21.0	105	20.9	105	0	65-135/12
75-34-3	1,1-Dichloroethane	20	20.9	105	20.2	101	3	70-130/12
107-06-2	1,2-Dichloroethane	20	21.6	108	21.3	107	1	70-130/11
75-35-4	1,1-Dichloroethene	20	17.1	86	16.6	83	3	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	20.5	103	20.1	101	2	72-116/12
100-41-4	Ethylbenzene	20	21.0	105	20.2	101	4	60-140/11
75-09-2	Methylene chloride	20	20.8	104	20.4	102	2	60-140/14
127-18-4	Tetrachloroethene	20	19.8	99	18.9	95	5	70-130/18
108-88-3	Toluene	20	19.9	100	18.9	95	5	70-130/13
71-55-6	1,1,1-Trichloroethane	20	21.3	107	20.1	101	6	70-130/12
79-00-5	1,1,2-Trichloroethane	20	22.7	114	20.9	105	8	70-130/14
79-01-6	Trichloroethene	20	20.8	104	19.6	98	6	65-135/13
75-01-4	Vinyl chloride	20	10.1	51	10.3	52	2	50-150/14
	m,p-Xylene	40	41.1	103	39.8	100	3	78-115/11
95-47-6	o-Xylene	20	21.1	106	20.0	100	5	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	111%	113%	80-128%
2037-26-5	Toluene-D8 (SUR)	100%	98%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	98%	101%	79-117%
1868-53-7	Dibromofluoromethane (S)	111%	112%	84-121%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V2R813-CC770	**Injection Date:**	04/17/26
Lab File ID:	2R27849A.D	**Injection Time:**	10:15
Instrument ID:	GCMS2R	**Method:**	EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	166586	3.09	226142	4.61	380709	5.23	183366	8.93	346934	7.45
Upper Limit [a]	333172	3.59	452284	5.11	761418	5.73	366732	9.43	693868	7.95
Lower Limit [b]	83293	2.59	113071	4.11	190355	4.73	91683	8.43	173467	6.95

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2R813-BS	166586	3.09	226142	4.61	380709	5.23	183366	8.93	346934	7.45
V2R813-BSD	180834	3.09	237274	4.61	394688	5.23	188429	8.92	367678	7.45
V2R813-MB	146974	3.09	234953	4.61	386689	5.23	188023	8.92	363561	7.44
ZZZZZZ	138920	3.09	233269	4.61	385020	5.23	178186	8.92	351545	7.44
JE32365-1	65116[c]	3.08	218559	4.61	356151	5.23	167650	8.92	331926	7.44
ZZZZZZ	52128[c]	3.09	220357	4.61	342659	5.23	170662	8.92	337063	7.45
ZZZZZZ	53760[c]	3.09	205550	4.61	323583	5.23	157431	8.92	307324	7.45
ZZZZZZ	68390[c]	3.09	210677	4.61	337905	5.23	169118	8.92	332130	7.45
JE32187-1	75330[c]	3.09	201636	4.61	323035	5.23	158759	8.93	310823	7.45
JE32187-2	78979[c]	3.09	210897	4.62	339458	5.23	160943	8.93	322507	7.45
ZZZZZZ	77625[c]	3.09	192105	4.62	302663	5.23	152165	8.93	293290	7.45
ZZZZZZ	87333	3.09	199843	4.62	323981	5.23	160750	8.93	313950	7.45
ZZZZZZ	84848	3.09	193301	4.61	307492	5.23	148839	8.93	299659	7.45
ZZZZZZ	93189	3.09	197491	4.62	313750	5.23	154693	8.93	302945	7.45
ZZZZZZ	91319	3.09	189797	4.61	303051	5.23	151068	8.93	294745	7.45
JE32365-1MS	121729	3.09	199907	4.62	330797	5.23	164353	8.93	312057	7.45
JE32365-1MSD	132385	3.09	201238	4.61	330551	5.23	167478	8.93	316929	7.45

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside the QC criteria but no associated target compounds reported under this internal standard.

Internal Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V4D6552-CC6417	**Injection Date:**	04/16/26
Lab File ID:	4D1450137A.D	**Injection Time:**	09:45
Instrument ID:	GCMS4D	**Method:**	EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	394671	8.71	563203	11.20	781280	12.12	288612	17.12	625590	15.00
Upper Limit [a]	789342	9.21	1126406	11.70	1562560	12.62	577224	17.62	1251180	15.50
Lower Limit [b]	197336	8.21	281602	10.70	390640	11.62	144306	16.62	312795	14.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D6552-BS	394671	8.71	563203	11.20	781280	12.12	288612	17.12	625590	15.00
V4D6552-BSD	366550	8.72	522635	11.21	720599	12.12	263796	17.12	581715	15.00
V4D6552-MB	343739	8.70	562276	11.20	775821	12.12	279281	17.12	625367	15.00
JE32187-4	344565	8.71	562673	11.20	762532	12.12	287084	17.12	632747	15.00
ZZZZZZ	387339	8.71	538752	11.21	750042	12.12	282805	17.12	612402	15.00
ZZZZZZ	379679	8.71	561237	11.21	780613	12.12	284639	17.12	634533	15.00
JE32288-1	394921	8.71	563210	11.21	786836	12.12	286598	17.12	645006	15.00
ZZZZZZ	395646	8.71	553317	11.21	769822	12.12	286654	17.12	635255	15.00
ZZZZZZ	409707	8.71	576129	11.21	797186	12.12	291177	17.12	650780	15.00
ZZZZZZ	426683	8.71	575258	11.21	806732	12.12	290930	17.12	652276	15.00
ZZZZZZ	404002	8.71	592582	11.21	820393	12.12	301943	17.12	679568	15.00
JE32288-1MS	408143	8.72	558860	11.21	790181	12.12	286026	17.12	644668	15.00
JE32288-1MSD	434875	8.72	569466	11.21	805767	12.12	291099	17.12	653035	15.00
ZZZZZZ	411562	8.71	590013	11.21	825800	12.12	308556	17.12	682328	15.00
ZZZZZZ	439215	8.71	603136	11.21	840956	12.12	305039	17.12	691346	15.00
ZZZZZZ	429169	8.72	609747	11.21	851720	12.12	318808	17.12	704169	15.00

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE32187-1	2R27867.D	111	98	102	114
JE32187-2	2R27869.D	108	100	104	110
JE32187-4	4D1450140.D	111	119* [a]	112	105
V2R813-BS	2R27849.D	111	100	98	111
V2R813-BSD	2R27851.D	113	98	101	112
V2R813-MB	2R27853.D	109	98	99	111
V4D6552-BS	4D1450137.D	111	118* [a]	110	105
V4D6552-BSD	4D1450138.D	112	119* [a]	110	105
V4D6552-MB	4D1450139.D	109	120* [a]	114	105

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

(a) Outside of in house control limits, but within reasonable method recovery limits.

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection/Internal Standard Area Summaries
- Isotope Dilution Standard/Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72565A-MB1	Z179364.D	1	04/21/26	RS	04/16/26	OP72565A	EZ8810

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE32187-1, JE32187-2

CAS No.	Compound	Result	RL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	28%	15-110%
4165-62-2	Phenol-d5	25%	12-110%
118-79-6	2,4,6-Tribromophenol	79%	32-143%
4165-60-0	Nitrobenzene-d5	51%	29-124%
321-60-8	2-Fluorobiphenyl	50%	23-122%
1718-51-0	Terphenyl-d14	70%	22-130%

Instrument Blank

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q326-IBLK	6Q68698.D	1	04/22/26	AM	n/a	n/a	T6Q326

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	99%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	93%	40-130%
	13C8-PFOA	99%	40-130%
	13C9-PFNA	98%	40-130%
	13C6-PFDA	101%	40-130%
	13C7-PFUnDA	101%	30-130%
	13C2-PFDoDA	101%	10-130%
	13C2-PFTeDA	94%	10-130%
	13C3-PFBS	110%	40-135%
	13C3-PFHxS	104%	40-130%
	13C8-PFOS	104%	40-130%
	13C8-FOSA	98%	40-130%
	d3-MeFOSA	96%	10-130%
	d5-EtFOSA	98%	10-130%
	d3-MeFOSAA	102%	40-170%
	d5-EtFOSAA	102%	25-135%
	d7-MeFOSE	100%	10-130%
	d9-EtFOSE	101%	10-130%
	13C2-4:2FTS	122%	40-200%
	13C2-6:2FTS	126%	40-200%
	13C2-8:2FTS	104%	40-300%
	13C3-HFPO-DA	98%	40-130%

Instrument Blank

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q578-IBLK	2Q43511.D	1	04/22/26	AM	n/a	n/a	T2Q578

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-2A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	109%	5-130%
	13C5-PFPeA	114%	40-130%
	13C5-PFHxA	114%	40-130%
	13C4-PFHpA	110%	40-130%
	13C8-PFOA	110%	40-130%
	13C9-PFNA	112%	40-130%
	13C6-PFDA	117%	40-130%
	13C7-PFUnDA	123%	30-130%
	13C2-PFDoDA	108%	10-130%
	13C2-PFTeDA	115%	10-130%
	13C3-PFBS	112%	40-135%
	13C3-PFHxS	100%	40-130%
	13C8-PFOS	109%	40-130%
	13C8-FOSA	116%	40-130%
	d3-MeFOSA	112%	10-130%
	d5-EtFOSA	108%	10-130%
	d3-MeFOSAA	113%	40-170%
	d5-EtFOSAA	109%	25-135%
	d7-MeFOSE	110%	10-130%
	d9-EtFOSE	112%	10-130%
	13C2-4:2FTS	124%	40-200%
	13C2-6:2FTS	120%	40-200%
	13C2-8:2FTS	122%	40-300%
	13C3-HFPO-DA	110%	40-130%

Instrument Blank

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q327-IBLK	6Q68773.D	1	04/23/26	AM	n/a	n/a	T6Q327

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	102%	40-130%
	13C5-PFHxA	98%	40-130%
	13C4-PFHpA	97%	40-130%
	13C8-PFOA	95%	40-130%
	13C9-PFNA	95%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	97%	30-130%
	13C2-PFDoDA	97%	10-130%
	13C2-PFTeDA	101%	10-130%
	13C3-PFBS	109%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	104%	40-130%
	13C8-FOSA	90%	40-130%
	d3-MeFOSA	91%	10-130%
	d5-EtFOSA	92%	10-130%
	d3-MeFOSAA	101%	40-170%
	d5-EtFOSAA	97%	25-135%
	d7-MeFOSE	90%	10-130%
	d9-EtFOSE	93%	10-130%
	13C2-4:2FTS	124%	40-200%
	13C2-6:2FTS	122%	40-200%
	13C2-8:2FTS	117%	40-300%
	13C3-HFPO-DA	98%	40-130%

Instrument Blank

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q578-ICCB	2Q43515.D	1	04/22/26	AM	n/a	n/a	T2Q578

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-2A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	109%	5-130%
	13C5-PFPeA	113%	40-130%
	13C5-PFHxA	116%	40-130%
	13C4-PFHpA	112%	40-130%
	13C8-PFOA	108%	40-130%
	13C9-PFNA	106%	40-130%
	13C6-PFDA	122%	40-130%
	13C7-PFUnDA	129%	30-130%
	13C2-PFDoDA	114%	10-130%
	13C2-PFTeDA	113%	10-130%
	13C3-PFBS	111%	40-135%
	13C3-PFHxS	105%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	108%	40-130%
	d3-MeFOSA	105%	10-130%
	d5-EtFOSA	100%	10-130%
	d3-MeFOSAA	108%	40-170%
	d5-EtFOSAA	104%	25-135%
	d7-MeFOSE	105%	10-130%
	d9-EtFOSE	107%	10-130%
	13C2-4:2FTS	115%	40-200%
	13C2-6:2FTS	119%	40-200%
	13C2-8:2FTS	113%	40-300%
	13C3-HFPO-DA	112%	40-130%

Instrument Blank

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q327-ICCB	6Q68777.D	1	04/23/26	AM	n/a	n/a	T6Q327

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	101%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	96%	40-130%
	13C8-PFOA	101%	40-130%
	13C9-PFNA	99%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	100%	30-130%
	13C2-PFDoDA	98%	10-130%
	13C2-PFTeDA	96%	10-130%
	13C3-PFBS	103%	40-135%
	13C3-PFHxS	101%	40-130%
	13C8-PFOS	100%	40-130%
	13C8-FOSA	99%	40-130%
	d3-MeFOSA	89%	10-130%
	d5-EtFOSA	87%	10-130%
	d3-MeFOSAA	93%	40-170%
	d5-EtFOSAA	87%	25-135%
	d7-MeFOSE	93%	10-130%
	d9-EtFOSE	91%	10-130%
	13C2-4:2FTS	138%	40-200%
	13C2-6:2FTS	158%	40-200%
	13C2-8:2FTS	119%	40-300%
	13C3-HFPO-DA	100%	40-130%

Instrument Blank

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q327-ICCB	6Q68797.D	1	04/23/26	AM	n/a	n/a	T6Q327

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-1A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	99%	5-130%
	13C5-PFPeA	103%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	100%	40-130%
	13C8-PFOA	99%	40-130%
	13C9-PFNA	106%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	106%	30-130%
	13C2-PFDoDA	105%	10-130%
	13C2-PFTeDA	98%	10-130%
	13C3-PFBS	105%	40-135%
	13C3-PFHxS	103%	40-130%
	13C8-PFOS	99%	40-130%
	13C8-FOSA	95%	40-130%
	d3-MeFOSA	91%	10-130%
	d5-EtFOSA	92%	10-130%
	d3-MeFOSAA	102%	40-170%
	d5-EtFOSAA	93%	25-135%
	d7-MeFOSE	85%	10-130%
	d9-EtFOSE	86%	10-130%
	13C2-4:2FTS	113%	40-200%
	13C2-6:2FTS	113%	40-200%
	13C2-8:2FTS	117%	40-300%
	13C3-HFPO-DA	102%	40-130%

Instrument Blank

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q327-ICCB	6Q68804.D	1	04/23/26	AM	n/a	n/a	T6Q327

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-1A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	103%	40-130%
	13C5-PFHxA	98%	40-130%
	13C4-PFHpA	94%	40-130%
	13C8-PFOA	96%	40-130%
	13C9-PFNA	97%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	99%	30-130%
	13C2-PFDoDA	100%	10-130%
	13C2-PFTeDA	94%	10-130%
	13C3-PFBS	102%	40-135%
	13C3-PFHxS	100%	40-130%
	13C8-PFOS	98%	40-130%
	13C8-FOSA	91%	40-130%
	d3-MeFOSA	89%	10-130%
	d5-EtFOSA	84%	10-130%
	d3-MeFOSAA	98%	40-170%
	d5-EtFOSAA	93%	25-135%
	d7-MeFOSE	84%	10-130%
	d9-EtFOSE	82%	10-130%
	13C2-4:2FTS	104%	40-200%
	13C2-6:2FTS	107%	40-200%
	13C2-8:2FTS	110%	40-300%
	13C3-HFPO-DA	101%	40-130%

Method Blank Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72788-MB	2Q43516.D	1	04/22/26	AM	04/22/26	OP72788	T2Q578

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A, JE32187-2A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	5-130%
	13C5-PFPeA	108%	40-130%
	13C5-PFHxA	104%	40-130%
	13C4-PFHpA	104%	40-130%
	13C8-PFOA	103%	40-130%
	13C9-PFNA	105%	40-130%
	13C6-PFDA	107%	40-130%
	13C7-PFUnDA	109%	30-130%
	13C2-PFDoDA	100%	10-130%
	13C2-PFTeDA	99%	10-130%
	13C3-PFBS	95%	40-135%
	13C3-PFHxS	98%	40-130%
	13C8-PFOS	113%	40-130%
	13C8-FOSA	107%	40-130%
	d3-MeFOSA	81%	10-130%
	d5-EtFOSA	90%	10-130%
	d3-MeFOSAA	111%	40-170%
	d5-EtFOSAA	112%	25-135%
	d7-MeFOSE	99%	10-130%
	d9-EtFOSE	101%	10-130%
	13C2-4:2FTS	125%	40-200%
	13C2-6:2FTS	120%	40-200%
	13C2-8:2FTS	122%	40-300%
	13C3-HFPO-DA	110%	40-130%

Method Blank Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72788-MB	6Q68778.D	1	04/23/26	AM	04/22/26	OP72788	T6Q327

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A, JE32187-2A

CAS No.	Compound	Result	RL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	89%	5-130%
	13C5-PFPeA	93%	40-130%
	13C5-PFHxA	90%	40-130%
	13C4-PFHpA	85%	40-130%
	13C8-PFOA	89%	40-130%
	13C9-PFNA	87%	40-130%
	13C6-PFDA	93%	40-130%
	13C7-PFUnDA	95%	30-130%
	13C2-PFDoDA	92%	10-130%
	13C2-PFTeDA	86%	10-130%
	13C3-PFBS	89%	40-135%
	13C3-PFHxS	91%	40-130%
	13C8-PFOS	89%	40-130%
	13C8-FOSA	82%	40-130%
	d3-MeFOSA	65%	10-130%
	d5-EtFOSA	65%	10-130%
	d3-MeFOSAA	83%	40-170%
	d5-EtFOSAA	84%	25-135%
	d7-MeFOSE	75%	10-130%
	d9-EtFOSE	77%	10-130%
	13C2-4:2FTS	102%	40-200%
	13C2-6:2FTS	108%	40-200%
	13C2-8:2FTS	179%	40-300%
	13C3-HFPO-DA	93%	40-130%

Blank Spike Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72788-LLBS	2Q43517.D	1	04/22/26	AM	04/22/26	OP72788	T2Q578

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A, JE32187-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0036	90	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0037	93	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0036	90	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0036	90	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0035	96	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0032	86	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	106%	40-130%
	13C5-PFHxA	105%	40-130%
	13C4-PFHpA	98%	40-130%
	13C8-PFOA	99%	40-130%
	13C9-PFNA	100%	40-130%
	13C6-PFDA	109%	40-130%
	13C7-PFUnDA	118%	30-130%
	13C2-PFDoDA	107%	10-130%
	13C2-PFTeDA	100%	10-130%
	13C3-PFBS	109%	40-135%
	13C3-PFHxS	95%	40-130%
	13C8-PFOS	93%	40-130%
	13C8-FOSA	99%	40-130%
	d3-MeFOSA	85%	10-130%
	d5-EtFOSA	82%	10-130%
	d3-MeFOSAA	109%	40-170%
	d5-EtFOSAA	103%	25-135%
	d7-MeFOSE	93%	10-130%
	d9-EtFOSE	99%	10-130%
	13C2-4:2FTS	132%	40-200%
	13C2-6:2FTS	133%	40-200%
	13C2-8:2FTS	127%	40-300%
	13C3-HFPO-DA	110%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72788-LLBS	6Q68779.D	1	04/23/26	AM	04/22/26	OP72788	T6Q327

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A, JE32187-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0038	95	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0035	88	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0035	88	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0035	88	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0031	85	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0030	81	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	86%	5-130%
	13C5-PFPeA	94%	40-130%
	13C5-PFHxA	89%	40-130%
	13C4-PFHpA	87%	40-130%
	13C8-PFOA	90%	40-130%
	13C9-PFNA	87%	40-130%
	13C6-PFDA	86%	40-130%
	13C7-PFUnDA	90%	30-130%
	13C2-PFDoDA	89%	10-130%
	13C2-PFTeDA	79%	10-130%
	13C3-PFBS	93%	40-135%
	13C3-PFHxS	91%	40-130%
	13C8-PFOS	86%	40-130%
	13C8-FOSA	79%	40-130%
	d3-MeFOSA	67%	10-130%
	d5-EtFOSA	66%	10-130%
	d3-MeFOSAA	87%	40-170%
	d5-EtFOSAA	80%	25-135%
	d7-MeFOSE	72%	10-130%
	d9-EtFOSE	74%	10-130%
	13C2-4:2FTS	104%	40-200%
	13C2-6:2FTS	110%	40-200%
	13C2-8:2FTS	174%	40-300%
	13C3-HFPO-DA	93%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72788-BS	2Q43518.D	1	04/22/26	AM	04/22/26	OP72788	T2Q578

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A, JE32187-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0236	94	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0241	96	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0241	96	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0252	101	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0216	95	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0211	91	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	102%	5-130%
	13C5-PFPeA	107%	40-130%
	13C5-PFHxA	108%	40-130%
	13C4-PFHpA	108%	40-130%
	13C8-PFOA	101%	40-130%
	13C9-PFNA	97%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	109%	30-130%
	13C2-PFDoDA	98%	10-130%
	13C2-PFTeDA	99%	10-130%
	13C3-PFBS	110%	40-135%
	13C3-PFHxS	113%	40-130%
	13C8-PFOS	103%	40-130%
	13C8-FOSA	100%	40-130%
	d3-MeFOSA	91%	10-130%
	d5-EtFOSA	91%	10-130%
	d3-MeFOSAA	112%	40-170%
	d5-EtFOSAA	112%	25-135%
	d7-MeFOSE	97%	10-130%
	d9-EtFOSE	100%	10-130%
	13C2-4:2FTS	127%	40-200%
	13C2-6:2FTS	130%	40-200%
	13C2-8:2FTS	128%	40-300%
	13C3-HFPO-DA	109%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72788-BS	6Q68785.D	1	04/23/26	AM	04/22/26	OP72788	T6Q327

The QC reported here applies to the following samples: **Method:** EPA 1633

JE32187-3, JE32187-1A, JE32187-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0245	98	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0242	97	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0244	98	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0262	105	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0221	97	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0200	86	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	87%	5-130%
	13C5-PFPeA	93%	40-130%
	13C5-PFHxA	88%	40-130%
	13C4-PFHpA	88%	40-130%
	13C8-PFOA	91%	40-130%
	13C9-PFNA	91%	40-130%
	13C6-PFDA	83%	40-130%
	13C7-PFUnDA	90%	30-130%
	13C2-PFDoDA	89%	10-130%
	13C2-PFTeDA	80%	10-130%
	13C3-PFBS	91%	40-135%
	13C3-PFHxS	88%	40-130%
	13C8-PFOS	95%	40-130%
	13C8-FOSA	80%	40-130%
	d3-MeFOSA	69%	10-130%
	d5-EtFOSA	67%	10-130%
	d3-MeFOSAA	88%	40-170%
	d5-EtFOSAA	85%	25-135%
	d7-MeFOSE	71%	10-130%
	d9-EtFOSE	71%	10-130%
	13C2-4:2FTS	91%	40-200%
	13C2-6:2FTS	95%	40-200%
	13C2-8:2FTS	138%	40-300%
	13C3-HFPO-DA	91%	40-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP72565A-BS12	Z179370.D	1	04/21/26	RS	04/16/26	OP72565A	EZ8810
OP72565A-BSD12	Z179371.D	1	04/21/26	RS	04/16/26	OP72565A	EZ8810

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE32187-1, JE32187-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	0.8	0.301	38	0.315	39	5	10-110/40

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	29%	35%	15-110%
4165-62-2	Phenol-d5	27%	30%	12-110%
118-79-6	2,4,6-Tribromophenol	82%	83%	32-143%
4165-60-0	Nitrobenzene-d5	28%*	32%	29-124%
321-60-8	2-Fluorobiphenyl	27%	30%	23-122%
1718-51-0	Terphenyl-d14	72%	69%	22-130%

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std: T2Q578-CC578 **Injection Date:** 04/22/26
Lab File ID: 2Q43513.D **Injection Time:** 19:38
Instrument ID: GCMS2Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	47077	3.14	34614	5.70	73270	7.12	25118	7.64	18593	8.13
Check Std [c]	51041	3.14	36539	5.70	78370	7.12	27185	7.64	19768	8.13
Upper Limit [d]	94154	3.54	69228	6.10	146540	7.52	50236	8.04	37186	8.53
Lower Limit [e]	23539	2.74	17307	5.30	36635	6.72	12559	7.24	9297	7.73

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q578-ICCB	44436	3.14	30326	5.70	69152	7.12	24144	7.64	16210	8.12	1
OP72788-MB	50824	3.17	33241	5.70	73575	7.12	24947	7.64	18579	8.12	1
OP72788-LLBS	55077	3.17	36040	5.70	80368	7.12	26581	7.64	18678	8.12	1
OP72788-BS	52217	3.17	34416	5.70	75010	7.12	26572	7.64	19161	8.13	1
ZZZZZZ	52349	3.17	34837	5.70	73720	7.14	25715	7.64	18768	8.13	1
ZZZZZZ	49397	3.17	33098	5.70	70076	7.14	23381	7.64	18233	8.13	1
ZZZZZZ	51355	3.17	34752	5.71	74983	7.14	27116	7.64	17615	8.13	1
ZZZZZZ	52267	3.17	36101	5.70	76716	7.12	25089	7.64	18246	8.12	1
ZZZZZZ	45395	3.17	29833	5.70	66150	7.12	21462	7.64	15261	8.13	1
OP72788-DUP	48447	3.17	33128	5.70	71805	7.12	24141	7.64	17334	8.12	1
JE32187-2A	50421	3.17	34358	5.70	72659	7.14	24634	7.64	18567	8.12	1
T2Q578-ICCB	43389	3.14	29889	5.70	67311	7.12	21696	7.64	15536	8.12	1
OP72745-MB	47793	3.15	30455	5.70	71370	7.12	23920	7.64	18620	8.12	1
OP72745-LLBS	45495	3.15	30616	5.70	67491	7.12	23648	7.64	17527	8.13	1
OP72745-BS	46728	3.15	30984	5.70	68679	7.12	23667	7.64	16558	8.12	1
OP72745-DUP	42604	3.15	29402	5.70	61994	7.12	22173	7.64	16470	8.12	1
ZZZZZZ	38353	3.14	28344	5.70	59094	7.12	19827	7.64	14781	8.12	1
ZZZZZZ	38389	3.14	29853	5.70	60012	7.12	21030	7.63	15031	8.12	1
ZZZZZZ	41988	3.14	28927	5.70	64255	7.12	22284	7.64	15217	8.12	1
ZZZZZZ	39715	3.14	30441	5.70	63763	7.12	21544	7.64	15620	8.12	1
ZZZZZZ	38709	3.14	28165	5.70	60771	7.12	21196	7.64	15227	8.12	1
ZZZZZZ	32843	3.14	24750	5.70	54099	7.12	18497	7.64	12390	8.12	1
ZZZZZZ	33389	3.14	29339	5.68	67753	7.12	21506	7.64	15390	8.12	1
JE31788-5A	43691	3.15	32260	5.70	66265	7.12	23815	7.64	15787	8.12	1
ZZZZZZ	22980[f]	3.09	26666	5.66	57428	7.11	19669	7.63	14659	8.12	1
ZZZZZZ	41294	3.15	29595	5.70	62165	7.12	21892	7.64	16640	8.12	1
T2Q578-ICCB	43064	3.14	28828	5.70	63390	7.12	21915	7.63	15524	8.12	1
ZZZZZZ	41224	3.15	28686	5.70	62725	7.12	21137	7.64	14446	8.12	1
ZZZZZZ	42209	3.15	29322	5.70	63160	7.12	20165	7.64	15441	8.12	1
ZZZZZZ	43931	3.15	30427	5.70	64105	7.12	21753	7.63	15770	8.12	1
ZZZZZZ	45408	3.15	31712	5.70	69281	7.12	23657	7.63	16435	8.12	1
ZZZZZZ	40674	3.13	30400	5.70	71361	7.11	22277	7.63	13377	8.09	1
ZZZZZZ	37680	3.14	28030	5.70	60420	7.12	20380	7.63	15580	8.10	10

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q578-CC578	**Injection Date:**	04/22/26
Lab File ID:	2Q43513.D	**Injection Time:**	19:38
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q578-ICCB	42141	3.13	29030	5.70	63998	7.12	21183	7.63	16232	8.12	1
OP72742-MB	49013	3.15	32558	5.70	73910	7.12	23969	7.63	15882	8.12	1
OP72742-LLBS	48697	3.15	32431	5.70	70848	7.12	23392	7.64	17174	8.12	1
OP72742-BS	45391	3.14	31909	5.70	69789	7.12	22589	7.63	17383	8.12	1
OP72742-LB	48675	3.15	32970	5.70	72759	7.12	23872	7.64	17353	8.12	1
ZZZZZZ	40670	3.14	27971	5.70	59685	7.12	19889	7.64	15676	8.12	1
ZZZZZZ	47756	3.14	32169	5.70	73197	7.12	24562	7.64	17863	8.12	1
ZZZZZZ	39903	3.14	29026	5.70	60875	7.12	20308	7.64	13417	8.12	1
ZZZZZZ	46336	3.15	31397	5.70	69173	7.12	22717	7.64	17941	8.12	1
ZZZZZZ	52301	3.15	34718	5.70	78111	7.12	28169	7.64	18893	8.12	1
ZZZZZZ	39872	3.14	28458	5.70	59532	7.12	20763	7.64	14622	8.12	1
T2Q578-ICCB	41212	3.14	28404	5.68	64763	7.12	21785	7.64	15496	8.12	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q578-ICC578 2Q43506.D 04/22/26 17:48. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.
(f) Outside of control limits.

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q578-CC578	**Injection Date:**	04/22/26
Lab File ID:	2Q43513.D	**Injection Time:**	19:38
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	7167	7.24	9638	8.28
Check Std [c]	7879	7.24	10450	8.28
Upper Limit [d]	14334	7.64	19276	8.68
Lower Limit [e]	3584	6.84	4819	7.88

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q578-ICCB	6918	7.24	9244	8.28	1
OP72788-MB	7536	7.24	9521	8.28	1
OP72788-LLBS	7852	7.23	10534	8.28	1
OP72788-BS	6807	7.24	9780	8.28	1
ZZZZZZ	6760	7.24	10085	8.28	1
ZZZZZZ	6398	7.24	9354	8.28	1
ZZZZZZ	7691	7.24	9519	8.28	1
ZZZZZZ	6949	7.24	10774	8.28	1
ZZZZZZ	6328	7.24	10081	8.28	1
OP72788-DUP	6995	7.23	9986	8.28	1
JE32187-2A	7036	7.24	9887	8.28	1
T2Q578-ICCB	6276	7.23	8952	8.27	1
OP72745-MB	6833	7.23	8834	8.28	1
OP72745-LLBS	6514	7.24	9163	8.27	1
OP72745-BS	6973	7.23	9547	8.27	1
OP72745-DUP	5998	7.24	8676	8.27	1
ZZZZZZ	5578	7.23	7554	8.27	1
ZZZZZZ	6280	7.23	8012	8.27	1
ZZZZZZ	6365	7.23	8096	8.27	1
ZZZZZZ	6302	7.23	7926	8.27	1
ZZZZZZ	6085	7.23	8077	8.27	1
ZZZZZZ	5357	7.23	7861	8.27	1
ZZZZZZ	6619	7.23	9273	8.27	1
JE31788-5A	7017	7.23	9490	8.27	1
ZZZZZZ	5741	7.21	8667	8.27	1
ZZZZZZ	6104	7.23	8697	8.27	1
T2Q578-ICCB	6543	7.23	8231	8.27	1
ZZZZZZ	6502	7.23	8650	8.27	1
ZZZZZZ	6049	7.23	7800	8.27	1
ZZZZZZ	6267	7.23	8886	8.27	1
ZZZZZZ	6761	7.23	9836	8.27	1
ZZZZZZ	5729	7.21	8895	8.25	1
ZZZZZZ	6680	7.23	8900	8.25	10

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q578-CC578	**Injection Date:**	04/22/26
Lab File ID:	2Q43513.D	**Injection Time:**	19:38
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q578-ICCB	6652	7.23	8472	8.27	1
OP72742-MB	6965	7.23	9725	8.27	1
OP72742-LLBS	6851	7.23	9385	8.27	1
OP72742-BS	6486	7.23	8704	8.27	1
OP72742-LB	7363	7.23	9600	8.27	1
ZZZZZZ	5952	7.23	8479	8.27	1
ZZZZZZ	7050	7.23	9509	8.27	1
ZZZZZZ	6487	7.23	8125	8.27	1
ZZZZZZ	6991	7.23	9266	8.27	1
ZZZZZZ	7458	7.23	10369	8.28	1
ZZZZZZ	6231	7.23	8048	8.27	1
T2Q578-ICCB	6471	7.23	8457	8.27	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q578-ICC578 2Q43506.D 04/22/26 17:48. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q327-CC326	**Injection Date:**	04/23/26
Lab File ID:	6Q68775.D	**Injection Time:**	13:42
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	407351	3.22	358623	5.75	672314	7.12	255636	7.64	235327	8.13
Check Std [c]	433416	3.23	350515	5.75	652751	7.12	251582	7.64	234186	8.11
Upper Limit [d]	814702	3.63	717246	6.15	1344628	7.52	511272	8.04	470654	8.51
Lower Limit [e]	203676	2.83	179312	5.35	336157	6.72	127818	7.24	117664	7.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T6Q327-ICCB	434086	3.24	370028	5.75	677416	7.12	263154	7.63	246091	8.11	1
T6Q327-ICCB	434086	3.24	370028	5.75	677416	7.12	263154	7.63	246091	8.11	1
OP72788-MB	551290	3.25	437615	5.75	809710	7.12	312797	7.64	283388	8.11	1
OP72788-LLBS	594020	3.25	453981	5.75	833899	7.12	332182	7.63	311458	8.11	1
OP72788-BS	548273	3.25	436515	5.75	805794	7.12	312360	7.63	291652	8.11	1
OP72788-DUP	557028	3.25	427070	5.76	819380	7.12	305637	7.63	290055	8.10	1
ZZZZZZ	536452	3.25	382251	5.76	740864	7.12	312991	7.63	282870	8.11	1
ZZZZZZ	499602	3.25	384244	5.76	737037	7.12	279249	7.63	272246	8.11	1
ZZZZZZ	498194	3.24	273138	5.75	455546	7.12	292186	7.63	257156	8.11	1
ZZZZZZ	550605	3.25	425964	5.76	800484	7.12	301184	7.63	301340	8.11	1
ZZZZZZ	595531	3.25	459106	5.76	879619	7.12	336487	7.63	320360	8.11	1
ZZZZZZ	573833	3.25	444049	5.76	827140	7.12	327926	7.63	318375	8.11	1
ZZZZZZ	580333	3.25	453112	5.76	832963	7.12	326523	7.63	300174	8.10	1
JE32187-3	553106	3.25	427910	5.76	807658	7.12	319880	7.63	302735	8.10	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q326-ICC326 6Q68693.D 04/22/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q327-CC326	**Injection Date:**	04/23/26
Lab File ID:	6Q68775.D	**Injection Time:**	13:42
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	65540	7.25	106197	8.28
Check Std [c]	63727	7.25	111005	8.28
Upper Limit [d]	131080	7.65	212394	8.68
Lower Limit [e]	32770	6.85	53099	7.88

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T6Q327-ICCB	66083	7.25	114331	8.28	1
T6Q327-ICCB	66083	7.25	114331	8.28	1
OP72788-MB	81763	7.25	135098	8.28	1
OP72788-LLBS	81163	7.25	143144	8.28	1
OP72788-BS	79255	7.25	133077	8.28	1
OP72788-DUP	79717	7.25	132756	8.28	1
ZZZZZZ	77475	7.25	120498	8.28	1
ZZZZZZ	67649	7.25	118676	8.28	1
ZZZZZZ	88801	7.25	126923	8.28	1
ZZZZZZ	82425	7.25	128100	8.28	1
ZZZZZZ	85904	7.25	141276	8.28	1
ZZZZZZ	77614	7.25	135189	8.28	1
ZZZZZZ	76301	7.25	139641	8.28	1
JE32187-3	81217	7.25	131702	8.28	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q326-ICC326 6Q68693.D 04/22/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std: T6Q327-CC326 **Injection Date:** 04/23/26
Lab File ID: 6Q68796.D **Injection Time:** 19:49
Instrument ID: GCMS6Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	407351	3.22	358623	5.75	672314	7.12	255636	7.64	235327	8.13
Check Std [c]	451009	3.24	351244	5.75	655231	7.12	246972	7.63	235997	8.10
Upper Limit [d]	814702	3.64	717246	6.15	1344628	7.52	511272	8.03	470654	8.50
Lower Limit [e]	203676	2.84	179312	5.35	336157	6.72	127818	7.23	117664	7.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T6Q327-ICCB	453400	3.24	362136	5.75	687472	7.12	250338	7.63	237868	8.10	1
T6Q327-ICCB	453400	3.24	362136	5.75	687472	7.12	250338	7.63	237868	8.10	1
JE32187-1A	580068	3.25	439674	5.76	833005	7.12	340376	7.63	315962	8.10	1
ZZZZZZ	534502	3.25	393093	5.76	745726	7.12	303164	7.63	276233	8.10	1
ZZZZZZ	562334	3.25	406945	5.76	784571	7.12	305190	7.63	274891	8.10	1
ZZZZZZ	576100	3.27	446113	5.76	826897	7.12	311780	7.63	294145	8.10	1
T6Q327-ECC326	450306	3.24	347457	5.76	666388	7.12	252658	7.63	246095	8.10	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q326-ICC326 6Q68693.D 04/22/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q327-CC326	**Injection Date:**	04/23/26
Lab File ID:	6Q68796.D	**Injection Time:**	19:49
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	65540	7.25	106197	8.28
Check Std [c]	63113	7.25	108888	8.27
Upper Limit [d]	131080	7.65	212394	8.67
Lower Limit [e]	32770	6.85	53099	7.87

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T6Q327-ICCB	64941	7.25	108479	8.28	1
T6Q327-ICCB	64941	7.25	108479	8.28	1
JE32187-1A	81650	7.25	128854	8.28	1
ZZZZZZ	69579	7.25	126406	8.28	1
ZZZZZZ	74968	7.25	125135	8.27	1
ZZZZZZ	79966	7.25	137437	8.28	1
T6Q327-ECC326	62872	7.25	106421	8.27	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q326-ICC326 6Q68693.D 04/22/26 15:46. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Internal Standard Area Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	EZ8810-CC8744	**Injection Date:**	04/21/26
Lab File ID:	Z179361.D	**Injection Time:**	09:12
Instrument ID:	GCMSZ	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	23887	6.19	33937	7.53	56963	10.27	44059	14.48
Upper Limit [a]	47774	6.69	67874	8.03	113926	10.77	88118	14.98
Lower Limit [b]	11944	5.69	16969	7.03	28482	9.77	22030	13.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP72565A-MB1	29099	6.19	38148	7.53	62108	10.27	52465	14.48
ZZZZZZ	23049	6.19	30629	7.53	51153	10.27	44102	14.48
OP72565A-BS12	21927	6.19	30049	7.53	51975	10.27	45472	14.48
OP72565A-BSD12	22512	6.19	30185	7.53	51686	10.27	46350	14.48
ZZZZZZ	31376	6.19	39614	7.53	62002	10.28	50794	14.48
ZZZZZZ	26170	6.19	35464	7.53	55136	10.27	47595	14.48
ZZZZZZ	24584	6.19	33421	7.53	56893	10.27	45815	14.48
ZZZZZZ	21336	6.19	36253	7.53	48745	10.27	44078	14.49
ZZZZZZ	21542	6.19	28658	7.53	49621	10.27	45875	14.48
JE32187-1	21034	6.19	28395	7.53	51701	10.27	47708	14.48
JE32187-2	20990	6.19	28136	7.53	50613	10.27	45843	14.48
ZZZZZZ	22178	6.19	29093	7.53	50326	10.27	44581	14.48
ZZZZZZ	22442	6.19	29530	7.53	50124	10.27	45337	14.48
ZZZZZZ	21612	6.19	28525	7.53	49235	10.27	43710	14.48
ZZZZZZ	21446	6.19	28165	7.53	48765	10.27	43436	14.48
ZZZZZZ	22815	6.19	29507	7.53	51430	10.27	45373	14.48
ZZZZZZ	21957	6.19	28442	7.53	48395	10.27	43872	14.48
ZZZZZZ	23095	6.19	30255	7.53	50741	10.27	45578	14.48
ZZZZZZ	23149	6.19	31247	7.53	53308	10.27	46188	14.48

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Isotope Dilution Standard Recovery Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE32187-3	6Q68795.D	81	85	83	76	81	80
JE32187-1A	6Q68798.D	80	86	83	80	85	91
JE32187-2A	2Q43525.D	92	93	99	93	93	86
OP72788-BS	2Q43518.D	108	101	97	98	113	103
OP72788-BS	6Q68785.D	88	91	91	83	88	95
OP72788-LLBS	2Q43517.D	98	99	100	109	95	93
OP72788-LLBS	6Q68779.D	87	90	87	86	91	86
OP72788-MB	2Q43516.D	104	103	105	107	98	113
OP72788-MB	6Q68778.D	85	89	87	93	91	89
T2Q578-IBLK	2Q43511.D	110	110	112	117	100	109
T2Q578-ICCB	2Q43515.D	112	108	106	122	105	101
T6Q326-IBLK	6Q68698.D	93	99	98	101	104	104
T6Q327-IBLK	6Q68773.D	97	95	95	98	99	104
T6Q327-ICCB	6Q68777.D	96	101	99	98	101	100
T6Q327-ICCB	6Q68797.D	100	99	106	98	103	99
T6Q327-ICCB	6Q68804.D	94	96	97	98	100	98

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFHpA	40-130%
S2 = 13C8-PFOA	40-130%
S3 = 13C9-PFNA	40-130%
S4 = 13C6-PFDA	40-130%
S5 = 13C3-PFHxS	40-130%
S6 = 13C8-PFOS	40-130%

Surrogate Recovery Summary

Job Number: JE32187
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JE32187-1	Z179378.D	30	30	71
JE32187-2	Z179379.D	35	38	68
OP72565A-BS12	Z179370.D	28*	27	72
OP72565A-BSD12	Z179371.D	32	30	69
OP72565A-MB1	Z179364.D	51	50	70

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61424
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 04/16/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	27	77		
Antimony	6.0	2.2	4.1		
Arsenic	3.0	1.3	2.5		
Barium	200	1	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.1	4.8		
Boron	100	1	85		
Cadmium	3.0	.2	1.2		
Calcium	5000	7.7	130	9.2	<5000
Cerium	100				
Chromium	10	.5	1.5		
Cobalt	50	.4	2.5		
Copper	10	6.8	4.1		
Iron	100	15	30	2.4	<100
Lead	3.0	1.6	2.4		
Lithium	50	3.7	9.1		
Magnesium	5000	54	200	-11	<5000
Manganese	15	.1	2		
Molybdenum	20	.5	4.5		
Nickel	10	.3	1.8		
Phosphorus	50	1.8	14		
Potassium	10000	77	200		
Selenium	10	2	5.5	0.70	<10
Silicon	200	1.3	130		
Silver	10	.9	2.4		
Sodium	10000	23	900		
Strontium	10	.4	1.6		
Sulfur	50	4.1	18		
Thallium	10	1.6	1.9		
Tin	50	.9	4.7		
Titanium	10	.9	1.9		
Tungsten	50	2	19		
Vanadium	50	.8	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61424
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 04/16/26

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.2	8.5		
Zirconium	10	.5	4.9		

Associated samples MP61424: JE32187-1, JE32187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61424
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:		04/16/26				04/16/26			
Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits	BSD Result	Spikelot MP200.7A	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic									
Barium	anr								
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	25200	25000	100.8	85-115	24700	25000	98.8	2.0	20
Cerium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	25100	25000	100.4	85-115	24600	25000	98.4	2.0	20
Lead	anr								
Lithium									
Magnesium	25100	25000	100.4	85-115	24700	25000	98.8	1.6	20
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium									
Selenium	2060	2000	103.0	85-115	2030	2000	101.5	1.5	20
Silicon									
Silver									
Sodium	anr								
Strontium									
Sulfur									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61424
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 04/16/26 04/16/26

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits	BSD Result	Spikelot MP200.7A % Rec	BSD RPD	QC Limit
Zinc	anr						
Zirconium							

Associated samples MP61424: JE32187-1, JE32187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61424 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/16/26

Metal	JE32118-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	37100	37100	0.2	0-10
Cerium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	204	204	0.3	0-10
Lead	anr			
Lithium				
Magnesium	10300	10400	1.2	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	3.90	0.00	100.0(a)	0-10
Silicon				
Silver				
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61424 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/16/26

Metal	JE32118-1 Original SDL 1:5	%DIF	QC Limits
Zinc	anr		
Zirconium			

Associated samples MP61424: JE32187-1, JE32187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61442
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 04/16/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88	0.11	<2.0
Arsenic	1.0	.025	.25	0.00094	<1.0
Barium	1.0	.009	.36		
Beryllium	0.50	.005	.065		
Boron	50	.85	18		
Cadmium	0.50	.01	.099	0.010	<0.50
Calcium	250	3.6	35		
Chromium	4.0	.018	.33	-0.016	<4.0
Cobalt	0.50	.003	.06		
Copper	4.0	.024	.65	0.075	<4.0
Iron	50	.24	12		
Lead	0.50	.008	.14	0.015	<0.50
Magnesium	250	.19	43		
Manganese	1.0	.012	.38		
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	.26	-0.037	<4.0
Potassium	250	.78	43		
Selenium	1.0	.044	.38		
Silver	2.0	.004	.1	0.021	<2.0
Sodium	250	1.5	50		
Strontium	5.0	.014	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7	0.62	<10

Associated samples MP61442: JE32187-1, JE32187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61442
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date:			04/16/26					04/16/26	
Metal	BSP Result	Spikelot MPX200.8B% Rec		QC Limits	BSD Result	Spikelot MPX200.8B% Rec		BSD RPD	QC Limit
Aluminum	anr								
Antimony	82.0	80	102.5	85-115	83.9	80	104.9	2.3	20
Arsenic	83.3	80	104.1	85-115	83.5	80	104.4	0.2	20
Barium									
Beryllium	anr								
Boron									
Cadmium	81.0	80	101.3	85-115	81.0	80	101.3	0.0	20
Calcium									
Chromium	82.8	80	103.5	85-115	82.5	80	103.1	0.4	20
Cobalt	anr								
Copper	83.7	80	104.6	85-115	84.5	80	105.6	1.0	20
Iron	anr								
Lead	79.1	80	98.9	85-115	82.7	80	103.4	4.4	20
Magnesium									
Manganese									
Molybdenum									
Nickel	83.7	80	104.6	85-115	83.5	80	104.4	0.2	20
Potassium									
Selenium	anr								
Silver	82.3	80	102.9	85-115	83.3	80	104.1	1.2	20
Sodium									
Strontium									
Thallium	anr								
Tin	anr								
Titanium									
Vanadium	anr								
Zinc	81.9	80	102.4	85-115	81.3	80	101.6	0.7	20

Associated samples MP61442: JE32187-1, JE32187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61444 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 04/16/26

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.036	.092	-0.025	<0.20

Associated samples MP61444: JE32187-1, JE32187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP61444
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 04/16/26 04/16/26

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	85-115	2.0	2	100.0	0.0	

Associated samples MP61444: JE32187-1, JE32187-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JE32187
Account: TTMAL - Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP69467/GN82044	2.0	0.0	mg/l	80	83.7	104.6	90-110%
Chromium, Hexavalent	GN81876	0.010	0.0	mg/l	0.150	0.156	104.0	90-110%
Cyanide	GP69419/GN81963	0.010	0.0	mg/l	0.2	0.212	106.0	90-110%
HEM Petroleum Hydrocarbons	GP69395/GN81907	5.0	0.0	mg/l	20	19.7	98.5	64-132%
Hardness, Total as CaCO3	GN82015	5.0	0.0	mg/l	160	174	108.8	80-120%
Hardness, Total as CaCO3	GN82015			mg/l	80	81.0	101.3	80-120%
Nitrogen, Ammonia	GP69445/GN82016	0.20	0.0	mg/l	1	1.06	106.0	80-120%
Phenols	GP69441/GN82276	0.20	0.0	mg/l	0.5	0.475	95.0	90-110%
Solids, Total Dissolved	GN81936	10	0.0	mg/l	500	479	95.8	71-110%
Solids, Total Suspended	GN82033	4.0	0.0	mg/l	50	49.6	99.2	84-111%
Sulfate	GP69467/GN82044	2.0	0.0	mg/l	80	83.2	104.0	90-110%
Turbidity	GN81893	0.30	0.17	NTU	20	20.0	100.0	90-110%

Associated Samples:
Batch GN81876: JE32187-1, JE32187-2
Batch GN81893: JE32187-1, JE32187-2
Batch GN81936: JE32187-1, JE32187-2
Batch GN82015: JE32187-1, JE32187-2
Batch GN82033: JE32187-1, JE32187-2
Batch GP69395: JE32187-2
Batch GP69419: JE32187-1, JE32187-2
Batch GP69441: JE32187-1, JE32187-2
Batch GP69445: JE32187-1, JE32187-2
Batch GP69467: JE32187-1, JE32187-2
(*) Outside of QC limits

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE34528

Sampling Date: 05/18/26



Report to:

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Total number of pages in report: 31

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE34528

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JE34528-1	05/18/26	14:30	CB	05/18/26	AQ	Ground Water	MW-2522

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Tetra Tech	**Job No:**	JE34528
Site:	HVEC, 3 Van de Graaf Dr, Burlington, MA	**Report Date**	5/26/2026 4:09:54 PM

On 05/18/2026, 1 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 0.3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE34528 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP73676

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JE34528-1 for EtFOSAA: Associated low level CCV outside of control limits high, sample was ND.
- OP73676-BS for 13C3-HFPO-DA: Outside of control limits.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE34528
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 05/18/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE34528-1	**MW-2522**					
Perfluorohexanoic acid		0.0027	0.0019		ug/l	EPA 1633
Perfluoroheptanoic acid		0.0024	0.0019		ug/l	EPA 1633
Perfluorooctanoic acid		0.0019	0.0019		ug/l	EPA 1633
Perfluorobutanesulfonic acid		0.0037	0.0019		ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0020	0.0019		ug/l	EPA 1633

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-2522
Lab Sample ID: JE34528-1
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 05/18/26
Date Received: 05/18/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q44484.D	1	05/19/26 19:05	AM	05/19/26 16:00	OP73676	T2Q598
Run #2							

	Initial Volume	Final Volume
Run #1	513 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS					
307-24-4	Perfluorohexanoic acid	0.0027	0.0019	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0024	0.0019	ug/l	
335-67-1	Perfluorooctanoic acid	0.0019	0.0019	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0019	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0019	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0019	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0019	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0019	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0019	ug/l	
PERFLUOROALKYL SULFONIC ACIDS					
375-73-5	Perfluorobutanesulfonic acid	0.0037	0.0019	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0020	0.0019	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0019	ug/l	
PERFLUOROOCTANE SULFONAMIDOACETIC ACIDS					
2355-31-9	MeFOSAA	ND	0.0019	ug/l	
2991-50-6	EtFOSAA [a]	ND	0.0019	ug/l	
PER and POLYFLUOROETHER CARBOXYLIC ACIDS					
13252-13-6	HFPO-DA (GenX)	ND	0.0078	ug/l	
919005-14-4	ADONA	ND	0.0078	ug/l	
PER and POLYFLUOROETHER SULFONIC ACIDS					
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0078	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0078	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C5-PFHxA	109%		40-130%
	13C4-PFHpA	104%		40-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2522
Lab Sample ID: JE34528-1
Matrix: AQ - Ground Water
Method: EPA 1633 EPA 1633
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 05/18/26
Date Received: 05/18/26
Percent Solids: n/a

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C8-PFOA	106%		40-130%
	13C9-PFNA	93%		40-130%
	13C6-PFDA	110%		40-130%
	13C7-PFUnDA	105%		30-130%
	13C2-PFDoDA	103%		10-130%
	13C2-PFTeDA	93%		10-130%
	13C3-PFBS	102%		40-135%
	13C3-PFHxS	110%		40-130%
	13C8-PFOS	98%		40-130%
	d3-MeFOSAA	79%		40-170%
	d5-EtFOSAA	102%		25-135%
	13C3-HFPO-DA	123%		40-130%

(a) Associated low level CCV outside of control limits high, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking #:
Bottle Order Control #: 125EM-125-041326-98
SGS Quote #:
SGS Job #: JE34528

Client / Reporting Information

Company Name: TetraTech
Street Address: [illegible] Rd
City: Marlborough State: MA Zip:
Project Contact: Cullen.Bryant@TetraTech.com E-mail:
Phone #: 339-223-8910
Sampler(s) Name(s): Cullen Bryant Phone #:

Project Information

Project Name: HVEC Burlington MA 3V DG
Street: 3 Van De Graaff
City: Burlington State: MA
Project #: 117-367085-25001
Client Purchase Order #:
Project Manager:
Attention:

Billing Information (if different from Report to)

Company:
Street Address:
City: State: Zip:

Analysis Requested

LCLP 1631,537,18

pH Check (Lab Use Only): X

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source * Chlorinated (Y/N)	Matrix	# of bottles	Number of Bottles HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
	MW-2522		5-18-26	14:30	CB	G		WQ	3					X				PFAS1 MS3

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other Rush

RUSH!

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NJGW Criteria 2025 *new*
- [ ] NYASP Category A
- [ ] NYASP Category B
- [x] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

5/18 SGS Service Center Northborough, MA

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished By:	Date / Time:	Received By:
1	Cullen Bryant	5-18-26 16:30	
2			Thursley (SL)
3		5/19/26 10:00	
4			
5		Date / Time:	Received By:

Relinquished By: 2 — Date / Time: 5/18/26 19:35 — Received By: 2

Custody Seal #: ☐ Intact ☐ Not intact ☐ Absent

Therm ID: See Sample Receipt Summary — On Ice: X — Cooler Temp. °C: 1.3

Ref No: G140329B9

SGS Sample Receipt Summary

Job Number: je34528 **Client:** TETRA TECH **Project:** JUMBO - BOXBOROUGH, 159 SARANSO

Date / Time Received: 5/18/2026 4:30:00 PM **Delivery Method:** SGS **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (1.3);

Cooler Temps (Corrected) °C: Cooler 1: (0.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE34528
Project Location:	HVEC, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE34528-1

Matrices: Groundwater/Surface Water (X) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other ( )

CAM Protocol (check all that apply below):

8260 VOC ( ) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr ( ) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals ( ) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	Other (x)

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

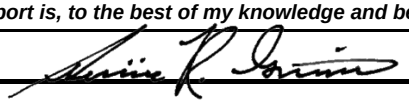
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **26-May-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE34528

HVEC, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE34528-1 MW-2522	Collected: 18-MAY-26 14:30	By: CB	Received: 18-MAY-26		By: NB	
JE34528-1	EPA 1633	19-MAY-26 19:05	AM	19-MAY-26	FS	LCID1633LIST18

QC Evaluation: MA MCP Limits

Job Number: JE34528
Account: Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA
Collected: 05/18/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No MA MCP Limits found for methods in this job.

* Sample used for QC is not from job JE34528

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection Standard Area Summaries
- Isotope Dilution Standard Recovery Summaries

Instrument Blank

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q594-IBLK	2Q44321.D	1	05/13/26	AM	n/a	n/a	T2Q594

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	97%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	92%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	98%	40-130%
	13C6-PFDA	93%	40-130%
	13C7-PFUnDA	117%	30-130%
	13C2-PFDoDA	89%	10-130%
	13C2-PFTeDA	95%	10-130%
	13C3-PFBS	100%	40-135%
	13C3-PFHxS	94%	40-130%
	13C8-PFOS	124%	40-130%
	13C8-FOSA	117%	40-130%

Instrument Blank

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q594-IBLK	2Q44321.D	1	05/13/26	AM	n/a	n/a	T2Q594

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	ID Standard Recoveries		Limits
	d3-MeFOSA	112%	10-130%
	d5-EtFOSA	115%	10-130%
	d3-MeFOSAA	118%	40-170%
	d5-EtFOSAA	121%	25-135%
	d7-MeFOSE	118%	10-130%
	d9-EtFOSE	120%	10-130%
	13C2-4:2FTS	119%	40-200%
	13C2-6:2FTS	115%	40-200%
	13C2-8:2FTS	101%	40-300%
	13C3-HFPO-DA	116%	40-130%

Instrument Blank

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q598-IBLK	2Q44474.D	1	05/19/26	AM	n/a	n/a	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	101%	5-130%
	13C5-PFPeA	109%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	99%	40-130%
	13C8-PFOA	103%	40-130%
	13C9-PFNA	90%	40-130%
	13C6-PFDA	102%	40-130%
	13C7-PFUnDA	98%	30-130%
	13C2-PFDoDA	100%	10-130%
	13C2-PFTeDA	96%	10-130%
	13C3-PFBS	105%	40-135%
	13C3-PFHxS	104%	40-130%
	13C8-PFOS	97%	40-130%
	13C8-FOSA	94%	40-130%

Instrument Blank

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q598-IBLK	2Q44474.D	1	05/19/26	AM	n/a	n/a	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	ID Standard Recoveries		Limits
	d3-MeFOSA	98%	10-130%
	d5-EtFOSA	106%	10-130%
	d3-MeFOSAA	96%	40-170%
	d5-EtFOSAA	98%	25-135%
	d7-MeFOSE	98%	10-130%
	d9-EtFOSE	99%	10-130%
	13C2-4:2FTS	108%	40-200%
	13C2-6:2FTS	113%	40-200%
	13C2-8:2FTS	111%	40-300%
	13C3-HFPO-DA	128%	40-130%

Instrument Blank

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q598-ICCB	2Q44478.D	1	05/19/26	AM	n/a	n/a	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	100%	5-130%
	13C5-PFPeA	99%	40-130%
	13C5-PFHxA	100%	40-130%
	13C4-PFHpA	110%	40-130%
	13C8-PFOA	103%	40-130%
	13C9-PFNA	107%	40-130%
	13C6-PFDA	89%	40-130%
	13C7-PFUnDA	103%	30-130%
	13C2-PFDoDA	85%	10-130%
	13C2-PFTeDA	88%	10-130%
	13C3-PFBS	80%	40-135%
	13C3-PFHxS	86%	40-130%
	13C8-PFOS	99%	40-130%
	13C8-FOSA	99%	40-130%

Instrument Blank

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q598-ICCB	2Q44478.D	1	05/19/26	AM	n/a	n/a	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	ID Standard Recoveries		Limits
	d3-MeFOSA	95%	10-130%
	d5-EtFOSA	92%	10-130%
	d3-MeFOSAA	62%	40-170%
	d5-EtFOSAA	56%	25-135%
	d7-MeFOSE	96%	10-130%
	d9-EtFOSE	86%	10-130%
	13C2-4:2FTS	58%	40-200%
	13C2-6:2FTS	107%	40-200%
	13C2-8:2FTS	100%	40-300%
	13C3-HFPO-DA	123%	40-130%

Method Blank Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP73676-MB	2Q44479.D	1	05/19/26	AM	05/19/26	OP73676	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	Compound	Result	RL	Units	Q
307-24-4	Perfluorohexanoic acid	ND	0.0020	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.0020	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.0020	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.0020	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.0020	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.0020	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.0020	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	ug/l	
2355-31-9	MeFOSAA	ND	0.0020	ug/l	
2991-50-6	EtFOSAA	ND	0.0020	ug/l	
13252-13-6	HFPO-DA (GenX)	ND	0.0080	ug/l	
919005-14-4	ADONA	ND	0.0080	ug/l	
756426-58-1	9Cl-PF3ONS (F-53B Major)	ND	0.0080	ug/l	
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	ND	0.0080	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	106%	5-130%
	13C5-PFPeA	112%	40-130%
	13C5-PFHxA	101%	40-130%
	13C4-PFHpA	106%	40-130%
	13C8-PFOA	105%	40-130%
	13C9-PFNA	94%	40-130%
	13C6-PFDA	96%	40-130%
	13C7-PFUnDA	113%	30-130%
	13C2-PFDoDA	87%	10-130%
	13C2-PFTeDA	92%	10-130%
	13C3-PFBS	109%	40-135%
	13C3-PFHxS	101%	40-130%
	13C8-PFOS	86%	40-130%
	13C8-FOSA	92%	40-130%

Method Blank Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP73676-MB	2Q44479.D	1	05/19/26	AM	05/19/26	OP73676	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	ID Standard Recoveries		Limits
	d3-MeFOSA	73%	10-130%
	d5-EtFOSA	80%	10-130%
	d3-MeFOSAA	74%	40-170%
	d5-EtFOSAA	82%	25-135%
	d7-MeFOSE	88%	10-130%
	d9-EtFOSE	89%	10-130%
	13C2-4:2FTS	116%	40-200%
	13C2-6:2FTS	109%	40-200%
	13C2-8:2FTS	116%	40-300%
	13C3-HFPO-DA	122%	40-130%

Blank Spike Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP73676-LLBS	2Q44480.D	1	05/19/26	AM	05/19/26	OP73676	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.004	0.0034	85	70-145
375-85-9	Perfluoroheptanoic acid	0.004	0.0034	85	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0034	85	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0043	108	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0042	105	70-140
2058-94-8	Perfluoroundecanoic acid	0.004	0.0032	80	70-145
307-55-1	Perfluorododecanoic acid	0.004	0.0031	78	70-140
72629-94-8	Perfluorotridecanoic acid	0.004	0.0034	85	65-140
376-06-7	Perfluorotetradecanoic acid	0.004	0.0036	90	60-140
375-73-5	Perfluorobutanesulfonic acid	0.00355	0.0034	96	60-145
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0036	98	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0033	89	55-150
2355-31-9	MeFOSAA	0.004	0.0040	100	50-140
2991-50-6	EtFOSAA	0.004	0.0042	105	70-145
13252-13-6	HFPO-DA (GenX)	0.016	0.0142	89	70-140
919005-14-4	ADONA	0.0151	0.0117	77	65-145
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.015	0.0121	81	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0151	0.0096	63	55-160

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	106%	5-130%
	13C5-PFPeA	113%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	101%	40-130%
	13C8-PFOA	103%	40-130%
	13C9-PFNA	97%	40-130%
	13C6-PFDA	89%	40-130%
	13C7-PFUnDA	95%	30-130%
	13C2-PFDoDA	85%	10-130%
	13C2-PFTeDA	88%	10-130%
	13C3-PFBS	93%	40-135%
	13C3-PFHxS	93%	40-130%
	13C8-PFOS	105%	40-130%
	13C8-FOSA	101%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP73676-LLBS	2Q44480.D	1	05/19/26	AM	05/19/26	OP73676	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	ID Standard Recoveries	BSP	Limits
	d3-MeFOSA	78%	10-130%
	d5-EtFOSA	85%	10-130%
	d3-MeFOSAA	88%	40-170%
	d5-EtFOSAA	96%	25-135%
	d7-MeFOSE	98%	10-130%
	d9-EtFOSE	101%	10-130%
	13C2-4:2FTS	101%	40-200%
	13C2-6:2FTS	100%	40-200%
	13C2-8:2FTS	99%	40-300%
	13C3-HFPO-DA	119%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP73676-BS	2Q44481.D	1	05/19/26	AM	05/19/26	OP73676	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
307-24-4	Perfluorohexanoic acid	0.025	0.0230	92	70-145
375-85-9	Perfluoroheptanoic acid	0.025	0.0242	97	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0227	91	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0260	104	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0248	99	70-140
2058-94-8	Perfluoroundecanoic acid	0.025	0.0234	94	70-145
307-55-1	Perfluorododecanoic acid	0.025	0.0239	96	70-140
72629-94-8	Perfluorotridecanoic acid	0.025	0.0243	97	65-140
376-06-7	Perfluorotetradecanoic acid	0.025	0.0255	102	60-140
375-73-5	Perfluorobutanesulfonic acid	0.0222	0.0210	95	60-145
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0224	98	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0232	100	55-150
2355-31-9	MeFOSAA	0.025	0.0215	86	50-140
2991-50-6	EtFOSAA	0.025	0.0194	78	70-145
13252-13-6	HFPO-DA (GenX)	0.1	0.0870	87	70-140
919005-14-4	ADONA	0.0945	0.0759	80	65-145
756426-58-1	9Cl-PF3ONS (F-53B Major)	0.0935	0.0760	81	70-155
763051-92-9	11Cl-PF3OUdS (F-53B Minor)	0.0945	0.0679	72	55-160

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	106%	5-130%
	13C5-PFPeA	114%	40-130%
	13C5-PFHxA	111%	40-130%
	13C4-PFHpA	106%	40-130%
	13C8-PFOA	112%	40-130%
	13C9-PFNA	94%	40-130%
	13C6-PFDA	99%	40-130%
	13C7-PFUnDA	105%	30-130%
	13C2-PFDoDA	93%	10-130%
	13C2-PFTeDA	87%	10-130%
	13C3-PFBS	107%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	94%	40-130%
	13C8-FOSA	93%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP73676-BS	2Q44481.D	1	05/19/26	AM	05/19/26	OP73676	T2Q598

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34528-1

CAS No.	ID Standard Recoveries	BSP	Limits
	d3-MeFOSA	82%	10-130%
	d5-EtFOSA	77%	10-130%
	d3-MeFOSAA	83%	40-170%
	d5-EtFOSAA	89%	25-135%
	d7-MeFOSE	108%	10-130%
	d9-EtFOSE	112%	10-130%
	13C2-4:2FTS	99%	40-200%
	13C2-6:2FTS	112%	40-200%
	13C2-8:2FTS	115%	40-300%
	13C3-HFPO-DA	131%* [a]	40-130%

(a) Outside of control limits.

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q598-CC594	**Injection Date:**	05/19/26
Lab File ID:	2Q44476.D	**Injection Time:**	12:21
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	32533	3.13	23264	5.68	50409	7.10	16846	7.59	12731	8.06
Check Std [c]	36934	3.11	24693	5.66	53842	7.09	17573	7.59	11877	8.06
Upper Limit [d]	65066	3.51	46528	6.06	100818	7.49	33692	7.99	25462	8.46
Lower Limit [e]	16267	2.71	11632	5.26	25205	6.69	8423	7.19	6366	7.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q598-ICCB	28593	2.99	21266	5.58	48560	7.09	15625	7.59	12711	8.06	1
OP73676-MB	36554	3.11	25493	5.66	52362	7.09	18152	7.59	12955	8.06	1
OP73676-LLBS	34893	3.11	23849	5.66	50207	7.09	16390	7.59	13265	8.06	1
OP73676-BS	34540	3.11	22831	5.66	47291	7.09	16844	7.59	12335	8.06	1
OP73676-DUP	31716	3.11	21345	5.66	48865	7.09	15661	7.59	11160	8.06	1
ZZZZZZ	33958	3.11	22734	5.66	49327	7.09	16493	7.59	11044	8.06	1
JE34528-1	39563	3.11	26216	5.66	54095	7.09	18121	7.59	13074	8.06	1
ZZZZZZ	30558	3.11	20284	5.66	45899	7.09	14396	7.59	10630	8.06	1
ZZZZZZ	35707	3.11	24560	5.66	52603	7.09	16556	7.59	12566	8.06	1
ZZZZZZ	35891	3.13	23469	5.66	48898	7.09	18261	7.59	11971	8.06	1
ZZZZZZ	34922	3.13	23197	5.66	47779	7.09	17471	7.59	10622	8.06	1
ZZZZZZ	35267	3.13	22658	5.66	50043	7.09	16646	7.59	12207	8.08	1
ZZZZZZ	34348	3.13	24013	5.66	50037	7.09	16604	7.59	12060	8.06	1
ZZZZZZ	33187	3.13	21434	5.66	43539	7.09	14487	7.59	11311	8.06	1
ZZZZZZ	33208	3.13	20434	5.66	46078	7.09	15158	7.59	11057	8.06	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q594-ICC594 2Q44316.D 05/13/26 18:49. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q598-CC594	**Injection Date:**	05/19/26
Lab File ID:	2Q44476.D	**Injection Time:**	12:21
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	5089	7.20	7089	8.21
Check Std [c]	5274	7.19	7548	8.21
Upper Limit [d]	10178	7.59	14178	8.61
Lower Limit [e]	2545	6.79	3545	7.81

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q598-ICCB	5232	7.19	6983	8.23	1
OP73676-MB	5172	7.19	7486	8.21	1
OP73676-LLBS	5533	7.19	6777	8.21	1
OP73676-BS	5115	7.19	7196	8.21	1
OP73676-DUP	4791	7.19	6925	8.21	1
ZZZZZZ	4663	7.19	6078	8.21	1
JE34528-1	5577	7.19	7890	8.21	1
ZZZZZZ	4880	7.19	6826	8.21	1
ZZZZZZ	4821	7.19	6348	8.21	1
ZZZZZZ	5180	7.19	7647	8.21	1
ZZZZZZ	5407	7.19	6699	8.21	1
ZZZZZZ	5399	7.19	7311	8.23	1
ZZZZZZ	5003	7.19	7212	8.21	1
ZZZZZZ	4738	7.19	6613	8.21	1
ZZZZZZ	4643	7.19	6214	8.21	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q594-ICC594 2Q44316.D 05/13/26 18:49. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Isotope Dilution Standard Recovery Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6	S7	S8
JE34528-1	2Q44484.D	109	104	106	93	110	105	103	93
OP73676-BS	2Q44481.D	111	106	112	94	99	105	93	87
OP73676-LLBS	2Q44480.D	102	101	103	97	89	95	85	88
OP73676-MB	2Q44479.D	101	106	105	94	96	113	87	92
T2Q594-IBLK	2Q44321.D	99	92	102	98	93	117	89	95
T2Q598-IBLK	2Q44474.D	102	99	103	90	102	98	100	96
T2Q598-ICCB	2Q44478.D	100	110	103	107	89	103	85	88

Isotope Dilution Standards	Recovery Limits
S1 = 13C5-PFHxA	40-130%
S2 = 13C4-PFHpA	40-130%
S3 = 13C8-PFOA	40-130%
S4 = 13C9-PFNA	40-130%
S5 = 13C6-PFDA	40-130%
S6 = 13C7-PFUnDA	30-130%
S7 = 13C2-PFDoDA	10-130%
S8 = 13C2-PFTeDA	10-130%

Isotope Dilution Standard Recovery Summary

Job Number: JE34528
Account: TTMAL Tetra Tech
Project: HVEC, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S9	S10	S11	S12	S13	S14
JE34528-1	2Q44484.D	102	110	98	79	102	123
OP73676-BS	2Q44481.D	107	99	94	83	89	131* [a]
OP73676-LLBS	2Q44480.D	93	93	105	88	96	119
OP73676-MB	2Q44479.D	109	101	86	74	82	122
T2Q594-IBLK	2Q44321.D	100	94	124	118	121	116
T2Q598-IBLK	2Q44474.D	105	104	97	96	98	128
T2Q598-ICCB	2Q44478.D	80	86	99	62	56	123

Isotope Dilution Standards	Recovery Limits
S9 = 13C3-PFBS	40-135%
S10 = 13C3-PFHxS	40-130%
S11 = 13C8-PFOS	40-130%
S12 = d3-MeFOSAA	40-170%
S13 = d5-EtFOSAA	25-135%
S14 = 13C3-HFPO-DA	40-130%

(a) Outside of control limits.

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE34662

Sampling Date: 05/20/26



Report to:

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Total number of pages in report: 75

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE34662

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JE34662-1	05/20/26	11:30	CB	05/20/26	AQ	Influent	INFLUENT
JE34662-1A	05/20/26	11:30	CB	05/20/26	AQ	Influent	INFLUENT
JE34662-2	05/20/26	11:50	CB	05/20/26	AQ	Effluent	EFFLUENT
JE34662-2A	05/20/26	11:50	CB	05/20/26	AQ	Effluent	EFFLUENT
JE34662-3	05/20/26	11:15	CB	05/20/26	AQ	Water	MID
JE34662-4	05/20/26	11:50	CB	05/20/26	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech **Job No:** JE34662

Site: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA **Report Date** 6/15/2026 1:01:03 PM

On 05/20/2026, 3 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 1.3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE34662 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V5A726

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JE34662-4: (pH=6)Sample pH did not satisfy field preservation criteria.

MS Volatiles By Method SW846 8260D BY SIM

Matrix: AQ **Batch ID:** V3D8503

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- 1,4-Dioxane reported only.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP74281

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** OP74389

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP62262

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE34356-1SDL were used as the QC samples for the metals analysis.
- The blank spike (BS) recovery(s) of Selenium are outside control limits.
- MP62262-B1 for Selenium: Spike blank indicates possible high bias, but all associated samples < RL.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP62267

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP62304

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP70506

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 180.1

Matrix: AQ **Batch ID:** GN83543

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP70504

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP70561

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 420.4/LACHAT

Matrix: AQ **Batch ID:** GP70468

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2340 C-11/21

Matrix: AQ **Batch ID:** GN83910

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 C-15/20

Matrix: AQ **Batch ID:** GN83760

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 D-15/20

Matrix: AQ **Batch ID:** GN83722

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM4500NH3 H-11/21LAC

Matrix: AQ **Batch ID:** GP70616

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SW846 6010/7196A M

Matrix: AQ **Batch ID:** R223625

- The data for SW846 6010/7196A M meets quality control requirements.
- JE34662-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix: AQ **Batch ID:** R223626

- The data for SW846 6010/7196A M meets quality control requirements.
- JE34662-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

General Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN83537

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE34662
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 05/20/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE34662-1	**INFLUENT**					
1,1-Dichloroethane		4.8	1.0	0.42	ug/l	EPA 624.1
1,1-Dichloroethene		17.0	1.0	0.45	ug/l	EPA 624.1
cis-1,2-Dichloroethene		1.4	1.0	0.51	ug/l	EPA 624.1
Tetrachloroethene		192	1.0	0.41	ug/l	EPA 624.1
1,1,1-Trichloroethane		70.3	1.0	0.43	ug/l	EPA 624.1
Trichloroethene		6.4	1.0	0.43	ug/l	EPA 624.1
1,4-Dioxane		0.35	0.30	0.085	ug/l	SW846 8260D BY SIM
Calcium		252000	10000	250	ug/l	EPA 200.7
Chromium		1.2 J	4.0	0.33	ug/l	EPA 200.8
Copper		1.4 J	4.0	0.65	ug/l	EPA 200.8
Iron		41.7 J	100	30	ug/l	EPA 200.7
Magnesium		87400	5000	200	ug/l	EPA 200.7
Nickel		0.61 J	4.0	0.26	ug/l	EPA 200.8
Chloride		799	8.0	3.3	mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		900	13	9.7	mg/l	SM2340 C-11/21
Solids, Total Dissolved		1780	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended		3.9 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.20 J	0.30	0.034	NTU	EPA 180.1
JE34662-1A	**INFLUENT**					
Perfluoroheptanoic acid		0.0426	0.0020	0.00051	ug/l	EPA 1633
Perfluorooctanoic acid		0.0958	0.0020	0.00076	ug/l	EPA 1633
Perfluorononanoic acid		0.0861	0.0020	0.00041	ug/l	EPA 1633
Perfluorodecanoic acid		0.0350	0.0020	0.00063	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0043	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0264	0.0020	0.00044	ug/l	EPA 1633
JE34662-2	**EFFLUENT**					
1,4-Dioxane		0.20 J	0.30	0.085	ug/l	SW846 8260D BY SIM
Calcium		246000	10000	250	ug/l	EPA 200.7
Chromium		0.53 J	4.0	0.33	ug/l	EPA 200.8
Magnesium		83000	5000	200	ug/l	EPA 200.7
Nickel		0.85 J	4.0	0.26	ug/l	EPA 200.8
Chloride		805	8.0	3.3	mg/l	EPA 300/SW846 9056A
Hardness, Total as CaCO3		800	13	9.7	mg/l	SM2340 C-11/21
Solids, Total Dissolved		1840	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended		2.6 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.10 J	0.30	0.034	NTU	EPA 180.1

Summary of Hits

Job Number: JE34662
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 05/20/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE34662-2A	**EFFLUENT**					
No hits reported in this sample.						
JE34662-3	**MID**					
Perfluoroheptanoic acid		0.0151	0.0020	0.00050	ug/l	EPA 1633
Perfluorooctanoic acid		0.0330	0.0020	0.00075	ug/l	EPA 1633
Perfluorononanoic acid		0.0311	0.0020	0.00040	ug/l	EPA 1633
Perfluorodecanoic acid		0.0122	0.0020	0.00062	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0017 J	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0090	0.0020	0.00043	ug/l	EPA 1633
JE34662-4	**TRIP BLANK**					
Acetone [a]		3.9 J	5.0	3.0	ug/l	EPA 624.1

(a) (pH= 6)Sample pH did not satisfy field preservation criteria.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE34662-1	**Date Sampled:**	05/20/26
Matrix:	AQ - Influent	**Date Received:**	05/20/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5A26982.D	1	05/23/26 22:02	NW	n/a	n/a	V5A726
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	4.8	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	17.0	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.4	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	192	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	70.3	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	6.4	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	101%		80-128%
2037-26-5	Toluene-D8 (SUR)	101%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	92%		79-117%
1868-53-7	Dibromofluoromethane (S)	111%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE34662-1	**Date Sampled:**	05/20/26
Matrix:	AQ - Influent	**Date Received:**	05/20/26
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D206562.D	1	05/29/26 19:40	ED	n/a	n/a	V3D8503
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.35	0.30	0.085	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	112%		50-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE34662-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 05/20/26
Date Received: 05/20/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Arsenic	0.25 U	1.0	0.25	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Cadmium	0.099 U	0.50	0.099	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Calcium	252000	10000	250	ug/l	2	05/23/26	05/27/26	MM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium	1.2 J	4.0	0.33	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Copper	1.4 J	4.0	0.65	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Iron	41.7 J	100	30	ug/l	1	05/23/26	05/26/26	MM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	0.14 U	0.50	0.14	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Magnesium	87400	5000	200	ug/l	1	05/23/26	05/26/26	MM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.092 U	0.20	0.092	ug/l	1	05/26/26	05/27/26	MK	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	0.61 J	4.0	0.26	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Selenium	5.5 U	10	5.5	ug/l	1	05/23/26	05/26/26	MM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	0.10 U	2.0	0.10	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Zinc	3.7 U	10	3.7	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]

(1) Instrument QC Batch: MA60907
(2) Instrument QC Batch: MA60912
(3) Instrument QC Batch: MA60920
(4) Instrument QC Batch: MA60936
(5) Prep QC Batch: MP62262
(6) Prep QC Batch: MP62267
(7) Prep QC Batch: MP62304

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE34662-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 05/20/26
Date Received: 05/20/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	799	8.0	3.3	mg/l	4	05/26/26 11:53	SS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0026 U	0.010	0.0026	mg/l	1	05/21/26 09:35	CP	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	05/29/26 22:22	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	05/28/26 12:05	JD	EPA 335.4/LACHAT
Hardness, Total as CaCO3	900	13	9.7	mg/l	1	05/29/26 18:09	MS	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	05/28/26 18:39	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	05/27/26 15:46	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	1780	10	6.0	mg/l	1	05/27/26 17:00	SD	SM2540 C-15/20
Solids, Total Suspended	3.9 J	4.0	0.90	mg/l	1	05/26/26 14:30	SD	SM2540 D-15/20
Turbidity	0.20 J	0.30	0.034	NTU	1	05/21/26 13:08	JOO	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE34662-1A	**Date Sampled:**	05/20/26
Matrix:	AQ - Influent	**Date Received:**	05/20/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q45118.D	1	06/09/26 21:53	YB	06/05/26 18:00	OP74281	T2Q611
Run #2							

	Initial Volume	Final Volume
Run #1	493 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0426	0.0020	0.00051	ug/l	
335-67-1	Perfluorooctanoic acid	0.0958	0.0020	0.00076	ug/l	
375-95-1	Perfluorononanoic acid	0.0861	0.0020	0.00041	ug/l	
335-76-2	Perfluorodecanoic acid	0.0350	0.0020	0.00063	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0043	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0264	0.0020	0.00044	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	100%		40-130%
	13C8-PFOA	100%		40-130%
	13C9-PFNA	102%		40-130%
	13C6-PFDA	98%		40-130%
	13C3-PFHxS	99%		40-130%
	13C8-PFOS	100%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE34662-2	**Date Sampled:**	05/20/26
Matrix:	AQ - Effluent	**Date Received:**	05/20/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5A26981.D	1	05/23/26 21:36	NW	n/a	n/a	V5A726
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	104%		80-128%
2037-26-5	Toluene-D8 (SUR)	99%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%		79-117%
1868-53-7	Dibromofluoromethane (S)	111%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE34662-2	**Date Sampled:**	05/20/26
Matrix:	AQ - Effluent	**Date Received:**	05/20/26
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D206561.D	1	05/29/26 19:04	ED	n/a	n/a	V3D8503
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.20	0.30	0.085	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		50-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE34662-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 05/20/26
Date Received: 05/20/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Arsenic	0.25 U	1.0	0.25	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Cadmium	0.099 U	0.50	0.099	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Calcium	246000	10000	250	ug/l	2	05/23/26	05/27/26	MM	EPA 200.7 [3]	EPA 200.7 [5]
Chromium	0.53 J	4.0	0.33	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Copper	0.65 U	4.0	0.65	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Iron	30 U	100	30	ug/l	1	05/23/26	05/26/26	MM	EPA 200.7 [2]	EPA 200.7 [5]
Lead	0.14 U	0.50	0.14	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Magnesium	83000	5000	200	ug/l	1	05/23/26	05/26/26	MM	EPA 200.7 [2]	EPA 200.7 [5]
Mercury	0.092 U	0.20	0.092	ug/l	1	05/26/26	05/27/26	MK	EPA 245.1 [1]	EPA 245.1 [7]
Nickel	0.85 J	4.0	0.26	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Selenium	5.5 U	10	5.5	ug/l	1	05/23/26	05/26/26	MM	EPA 200.7 [2]	EPA 200.7 [5]
Silver	0.10 U	2.0	0.10	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]
Zinc	3.7 U	10	3.7	ug/l	1	05/23/26	05/29/26	NV	EPA 200.8 [4]	EPA 200.8 [6]

(1) Instrument QC Batch: MA60907
(2) Instrument QC Batch: MA60912
(3) Instrument QC Batch: MA60920
(4) Instrument QC Batch: MA60936
(5) Prep QC Batch: MP62262
(6) Prep QC Batch: MP62267
(7) Prep QC Batch: MP62304

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE34662-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 05/20/26
Date Received: 05/20/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	805	8.0	3.3	mg/l	4	05/26/26 12:06	SS	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0026 U	0.010	0.0026	mg/l	1	05/21/26 09:35	CP	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	05/29/26 22:26	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	05/28/26 12:06	JD	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbons	0.86 U	5.0	0.86	mg/l	1	05/26/26 17:00	SS	EPA 1664A
Hardness, Total as CaCO3	800	13	9.7	mg/l	1	05/29/26 18:09	MS	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	05/28/26 18:40	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	05/27/26 15:47	JD	EPA 420.4/LACHAT
Solids, Total Dissolved	1840	10	6.0	mg/l	1	05/27/26 17:00	SD	SM2540 C-15/20
Solids, Total Suspended	2.6 J	4.0	0.90	mg/l	1	05/26/26 14:30	SD	SM2540 D-15/20
Turbidity	0.10 J	0.30	0.034	NTU	1	05/21/26 13:08	JOO	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE34662-2A	**Date Sampled:**	05/20/26
Matrix:	AQ - Effluent	**Date Received:**	05/20/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Q70537.D	1	06/09/26 23:29	YB	06/09/26 17:00	OP74389	T6Q367
Run #2							

	Initial Volume	Final Volume
Run #1	483 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	ND	0.0021	0.00052	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0021	0.00078	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0021	0.00041	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0021	0.00064	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	ND	0.0021	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0021	0.00045	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	109%		40-130%
	13C8-PFOA	109%		40-130%
	13C9-PFNA	106%		40-130%
	13C6-PFDA	107%		40-130%
	13C3-PFHxS	117%		40-130%
	13C8-PFOS	105%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID
Lab Sample ID: JE34662-3
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 05/20/26
Date Received: 05/20/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2Q45117.D	1	06/09/26 21:37	YB	06/05/26 18:00	OP74281	T2Q611
Run #2							

	Initial Volume	Final Volume
Run #1	498 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0151	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.0330	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	0.0311	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	0.0122	0.0020	0.00062	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0017	0.0020	0.0011	ug/l	J
1763-23-1	Perfluorooctanesulfonic acid	0.0090	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	98%		40-130%
	13C8-PFOA	101%		40-130%
	13C9-PFNA	96%		40-130%
	13C6-PFDA	93%		40-130%
	13C3-PFHxS	110%		40-130%
	13C8-PFOS	106%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE34662-4	**Date Sampled:**	05/20/26
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/20/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5A26984.D	1	05/23/26 22:55	NW	n/a	n/a	V5A726
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	3.9	5.0	3.0	ug/l	J
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	104%		80-128%
2037-26-5	Toluene-D8 (SUR)	100%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%		79-117%
1868-53-7	Dibromofluoromethane (S)	110%		84-121%

(a) (pH= 6)Sample pH did not satisfy field preservation criteria.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certification Exceptions

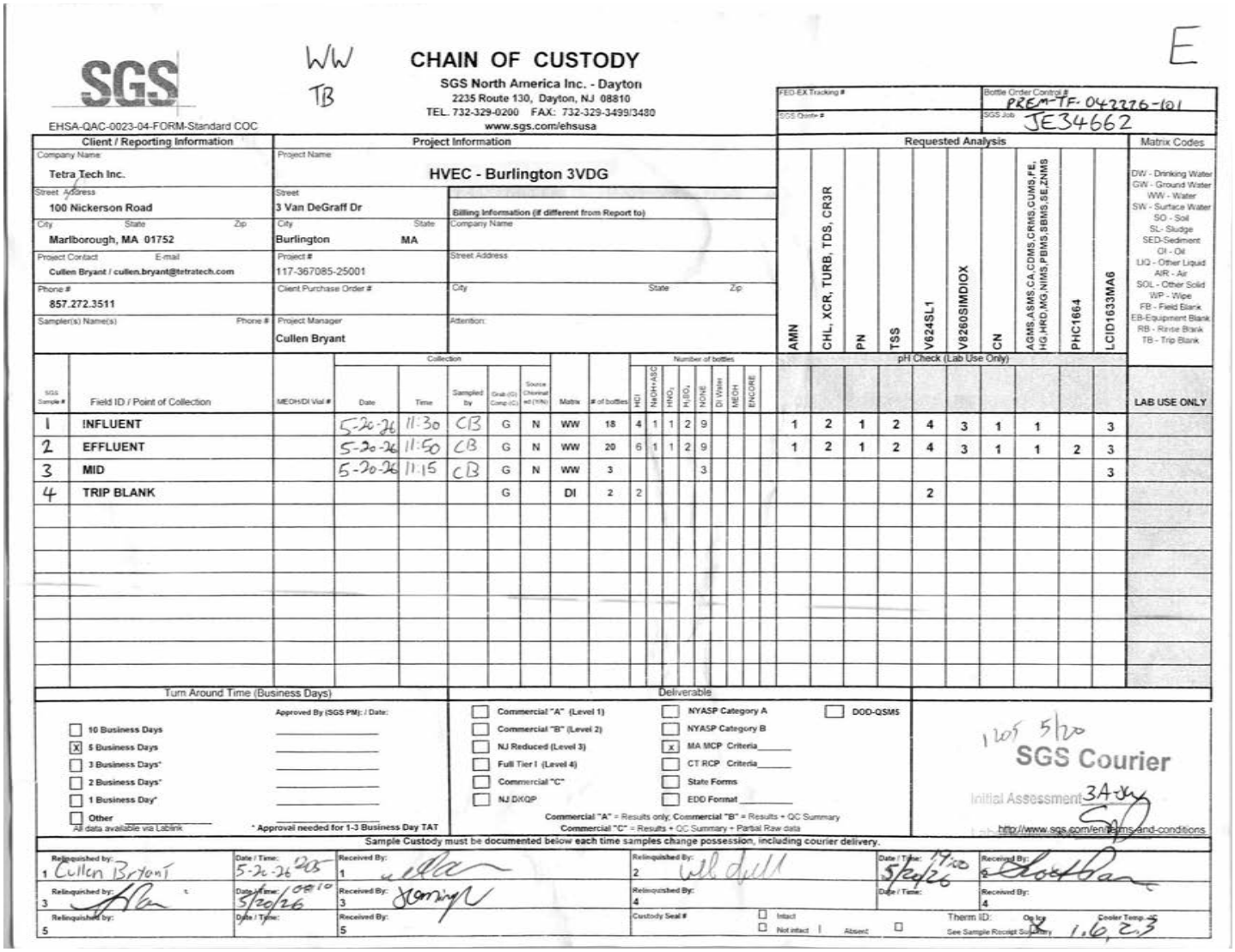
Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		**SW846 6010/7196A M**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.



SGS

EHSA-QAC-0023-04-FORM-Standard COC

WW
TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

E

FED-EX Tracking #:
SGS Quote #:
Bottle Order Control #: PREM-TF-042226-101
SGS Job #: JE34662

Client / Reporting Information

Company Name: Tetra Tech Inc.
Street Address: 100 Nickerson Road
City / State / Zip: Marlborough, MA 01752
Project Contact / E-mail: Cullen Bryant / cullen.bryant@tetratech.com
Phone #: 857.272.3511
Sampler(s) Name(s) / Phone #:

Project Information

Project Name: HVEC - Burlington 3VDG
Street: 3 Van DeGraff Dr
City / State: Burlington MA
Project #: 117-367085-25001
Client Purchase Order #:
Project Manager: Cullen Bryant

Billing Information (if different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) / Comp (C)	Source Chemical ed (Y/N)	Matrix	# of bottles	Number of bottles: HCl	NaOH+ASC	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	AMN	CHL, XCR, TURB, TDS, CR3R	PN	TSS	V624SL1	V8260SIMDIOX	CN	AGMS,ASMS,CA,CDMS,CRMS,CUMS,FE, HG,HRD,MG,NIMS,PBMS,SBMS,SE,ZNMS	PHC1664	LCID1633MA6	LAB USE ONLY
1	INFLUENT		5-20-26	11:30	CB	G	N	WW	18	4	1	1	2	9					1	2	1	2	4	3	1	1		3	
2	EFFLUENT		5-20-26	11:50	CB	G	N	WW	20	6	1	1	2	9					1	2	1	2	4	3	1	1	2	3	
3	MID		5-20-26	11:15	CB	G	N	WW	3					3														3	
4	TRIP BLANK					G		DI	2	2													2						

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [X] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [X] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

1105 5/20
SGS Courier
Initial Assessment 3A

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	Cullen Bryant	5-20-26 1205	
2			Date / Time: 5/20/26 1705
3		5/20/26 1810	
4			Date / Time:
5		Date / Time:	

Custody Seal #: [ ] Intact [ ] Not intact | [ ] Absent
Therm ID: Cooler Temp: 1.6, 2.3
See Sample Receipt Summary

5.2 5

JE34662: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE34662 **Client:** TETRA TECH **Project:** HVEC - MONTHLY RGP , 3 VAN DE GRA

Date / Time Received: 5/20/2026 12:05:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (1.6); Cooler 2: (2.3);

Cooler Temps (Corrected) °C: Cooler 1: (0.6); Cooler 2: (1.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE34662
Project Location:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE34662-1,JE34662-1A,JE34662-2,JE34662-2A,JE34662-3,JE34662-4

Matrices: Groundwater/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC (X) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

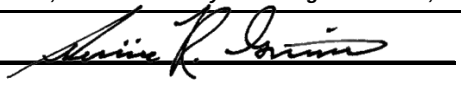
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ Yes	☐ No ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.		
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No [1]

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **15-Jun-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE34662

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE34662-1	Collected: 20-MAY-26 11:30 By: CB		Received: 20-MAY-26 By: JW			
INFLUENT						
JE34662-1	SW846 7196A	21-MAY-26 09:35	CP			XCR
JE34662-1	EPA 180.1	21-MAY-26 13:08	JOO			TURB
JE34662-1	EPA 624.1	23-MAY-26 22:02	NW			V624SL1
JE34662-1	EPA 300/SW846 9056A	26-MAY-26 11:53	SS	25-MAY-26	SS	CHL
JE34662-1	EPA 200.7	26-MAY-26 13:53	MM	23-MAY-26	NV	FE,MG,SE
JE34662-1	SM2540 D-15/20	26-MAY-26 14:30	SD			TSS
JE34662-1	EPA 245.1	27-MAY-26 10:42	MK	26-MAY-26	MK	HG
JE34662-1	EPA 200.7	27-MAY-26 13:36	MM	23-MAY-26	NV	CA
JE34662-1	EPA 420.4/LACHAT	27-MAY-26 15:46	JD	24-MAY-26	KG	PN
JE34662-1	SM2540 C-15/20	27-MAY-26 17:00	SD			TDS
JE34662-1	EPA 335.4/LACHAT	28-MAY-26 12:05	JD	27-MAY-26	KG	CN
JE34662-1	SM4500NH3 H-11/21LAC	28-MAY-26 18:39	JD	28-MAY-26	JD	AMN
JE34662-1	SM2340 C-11/21	29-MAY-26 18:09	MS			HRD
JE34662-1	SW846 8260D BY SIM	29-MAY-26 19:40	ED			V8260SIMDIOX
JE34662-1	EPA 200.8	29-MAY-26 22:22	NV	23-MAY-26	HT	AGMS,ASMS,CDMS,CRMS,CUMS,NIMS,PBMS,SBMS,ZNMS
JE34662-1	SW846 6010/7196A M	29-MAY-26 22:22	NV			CR3R
JE34662-2	Collected: 20-MAY-26 11:50 By: CB		Received: 20-MAY-26 By: JW			
EFFLUENT						
JE34662-2	SW846 7196A	21-MAY-26 09:35	CP			XCR
JE34662-2	EPA 180.1	21-MAY-26 13:08	JOO			TURB
JE34662-2	EPA 624.1	23-MAY-26 21:36	NW			V624SL1
JE34662-2	EPA 300/SW846 9056A	26-MAY-26 12:06	SS	25-MAY-26	SS	CHL
JE34662-2	EPA 200.7	26-MAY-26 13:59	MM	23-MAY-26	NV	FE,MG,SE
JE34662-2	SM2540 D-15/20	26-MAY-26 14:30	SD			TSS
JE34662-2	EPA 1664A	26-MAY-26 17:00	SS	26-MAY-26	SS	PHC1664
JE34662-2	EPA 245.1	27-MAY-26 10:45	MK	26-MAY-26	MK	HG
JE34662-2	EPA 200.7	27-MAY-26 13:41	MM	23-MAY-26	NV	CA
JE34662-2	EPA 420.4/LACHAT	27-MAY-26 15:47	JD	24-MAY-26	KG	PN
JE34662-2	SM2540 C-15/20	27-MAY-26 17:00	SD			TDS
JE34662-2	EPA 335.4/LACHAT	28-MAY-26 12:06	JD	27-MAY-26	KG	CN
JE34662-2	SM4500NH3 H-11/21LAC	28-MAY-26 18:40	JD	28-MAY-26	JD	AMN
JE34662-2	SM2340 C-11/21	29-MAY-26 18:09	MS			HRD
JE34662-2	SW846 8260D BY SIM	29-MAY-26 19:04	ED			V8260SIMDIOX

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE34662

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE34662-2	EPA 200.8	29-MAY-26 22:26	NV	23-MAY-26	HT	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE34662-2	SW846 6010/7196A M	29-MAY-26 22:26	NV			CR3R
JE34662-3	Collected: 20-MAY-26 11:15 By: CB MID			Received: 20-MAY-26 By: JW		
JE34662-3	EPA 1633	09-JUN-26 21:37	YB	05-JUN-26	IT	LCID1633MA6
JE34662-4	Collected: 20-MAY-26 11:50 By: CB TRIP BLANK			Received: 20-MAY-26 By: JW		
JE34662-4	EPA 624.1	23-MAY-26 22:55	NW			V624SL1
JE34662-1A	Collected: 20-MAY-26 11:30 By: CB INFLUENT			Received: 20-MAY-26 By: JW		
JE34662-1A	EPA 1633	09-JUN-26 21:53	YB	05-JUN-26	IT	LCID1633MA6
JE34662-2A	Collected: 20-MAY-26 11:50 By: CB EFFLUENT			Received: 20-MAY-26 By: JW		
JE34662-2A	EPA 1633	09-JUN-26 23:29	YB	09-JUN-26	IT	LCID1633MA6

QC Evaluation: MA MCP Limits

Job Number: JE34662
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 05/20/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No MA MCP Limits found for methods in this job.

* Sample used for QC is not from job JE34662

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5A726-MB	5A26966.D	1	05/23/26	NW	n/a	n/a	V5A726

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE34662-1, JE34662-2, JE34662-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	99%	80-128%
2037-26-5	Toluene-D8 (SUR)	99%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	94%	79-117%
1868-53-7	Dibromofluoromethane (S)	109%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D8503-MB	3D206550.D	1	05/29/26	ED	n/a	n/a	V3D8503

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

JE34662-1, JE34662-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.085	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	103%	50-150%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5A726-BS	5A26964A.D	1	05/23/26	NW	n/a	n/a	V5A726
V5A726-BSD	5A26965.D	1	05/23/26	NW	n/a	n/a	V5A726

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE34662-1, JE34662-2, JE34662-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	103	129	96.5	121	7	26-198/39
71-43-2	Benzene	20	17.7	89	17.1	86	3	65-135/11
56-23-5	Carbon tetrachloride	20	18.6	93	18.6	93	0	70-130/13
95-50-1	1,2-Dichlorobenzene	20	21.3	107	20.7	104	3	65-135/12
541-73-1	1,3-Dichlorobenzene	20	20.1	101	20.2	101	0	70-130/12
106-46-7	1,4-Dichlorobenzene	20	19.1	96	19.4	97	2	65-135/12
75-34-3	1,1-Dichloroethane	20	21.3	107	20.7	104	3	70-130/12
107-06-2	1,2-Dichloroethane	20	19.8	99	19.0	95	4	70-130/11
75-35-4	1,1-Dichloroethene	20	18.5	93	18.4	92	1	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	19.7	99	19.4	97	2	72-116/12
100-41-4	Ethylbenzene	20	18.4	92	18.1	91	2	60-140/11
75-09-2	Methylene chloride	20	19.0	95	18.0	90	5	60-140/14
127-18-4	Tetrachloroethene	20	19.6	98	19.0	95	3	70-130/18
108-88-3	Toluene	20	18.7	94	18.9	95	1	70-130/13
71-55-6	1,1,1-Trichloroethane	20	17.7	89	16.9	85	5	70-130/12
79-00-5	1,1,2-Trichloroethane	20	19.3	97	19.7	99	2	70-130/14
79-01-6	Trichloroethene	20	18.1	91	17.3	87	5	65-135/13
75-01-4	Vinyl chloride	20	24.5	123	23.0	115	6	50-150/14
	m,p-Xylene	40	35.4	89	35.4	89	0	78-115/11
95-47-6	o-Xylene	20	18.1	91	17.5	88	3	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	97%	99%	80-128%
2037-26-5	Toluene-D8 (SUR)	97%	98%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	93%	96%	79-117%
1868-53-7	Dibromofluoromethane (S)	102%	104%	84-121%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D8503-BS	3D206547.D	1	05/29/26	ED	n/a	n/a	V3D8503
V3D8503-BSD	3D206548.D	1	05/29/26	ED	n/a	n/a	V3D8503

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

JE34662-1, JE34662-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	20	18.0	90	17.8	89	1	58-137/27

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	110%	50-150%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V3D8503-CC8448	**Injection Date:**	05/29/26
Lab File ID:	3D206546.D	**Injection Time:**	10:03
Instrument ID:	GCMS3D	**Method:**	SW846 8260D BY SIM

	IS 1 AREA	RT
Check Std	12566	4.54
Upper Limit [a]	25132	5.04
Lower Limit [b]	6283	4.04

Lab Sample ID	IS 1 AREA	RT
V3D8503-BS	11969	4.54
V3D8503-BSD	10904	4.54
V3D8503-MB	11505	4.55
JE35031-10	11848	4.54
JE35031-11	11617	4.54
ZZZZZZ	21112	4.52
ZZZZZZ	21764	4.52
ZZZZZZ	22532	4.52
ZZZZZZ	23054	4.54
JE35031-10MS	14319	4.54
JE35031-11DUP	14028	4.54
ZZZZZZ	13260	4.55
JE34662-2	12290	4.55
JE34662-1	11850	4.55

IS 1 = 1,4-Dioxane-D8

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: V5A726-CC681 **Injection Date:** 05/23/26
Lab File ID: 5A26964.D **Injection Time:** 14:03
Instrument ID: GCMS5A **Method:** EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	117280	2.59	161495	3.60	244498	4.05	95343	7.52	202318	5.93
Upper Limit [a]	234560	3.09	322990	4.10	488996	4.55	190686	8.02	404636	6.43
Lower Limit [b]	58640	2.09	80748	3.10	122249	3.55	47672	7.02	101159	5.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V5A726-BS	117280	2.59	161495	3.60	244498	4.05	95343	7.52	202318	5.93
V5A726-BSD	113253	2.59	158980	3.60	242511	4.06	93424	7.52	200379	5.93
V5A726-MB	97088	2.59	159411	3.60	240470	4.05	92602	7.52	194790	5.93
JE34670-1	96758	2.59	157535	3.60	239014	4.05	91464	7.52	191777	5.93
ZZZZZZ	103115	2.59	158339	3.60	243516	4.05	94542	7.52	193133	5.93
ZZZZZZ	104558	2.59	155908	3.60	232629	4.06	89436	7.52	190235	5.93
ZZZZZZ	99442	2.59	156700	3.60	230758	4.05	88842	7.52	188163	5.93
ZZZZZZ	105685	2.59	150672	3.60	230502	4.05	90546	7.52	189824	5.93
ZZZZZZ	98383	2.59	153597	3.60	233967	4.06	90057	7.52	192160	5.93
ZZZZZZ	100424	2.59	148663	3.60	231148	4.06	89115	7.52	189670	5.93
ZZZZZZ	94842	2.59	149785	3.60	226658	4.05	87734	7.52	184128	5.93
ZZZZZZ	85384	2.59	144130	3.60	215049	4.05	83647	7.52	177396	5.93
ZZZZZZ	115150	2.59	151510	3.60	230854	4.05	86796	7.52	186265	5.93
JE34670-1MS	106065	2.59	150961	3.60	229759	4.06	91762	7.52	191349	5.93
JE34670-1MSD	112212	2.59	149873	3.60	234322	4.06	92558	7.52	196455	5.93
ZZZZZZ	101060	2.59	153126	3.60	232569	4.06	90680	7.52	186650	5.93
JE34662-2	102922	2.59	149903	3.60	231263	4.06	88337	7.52	188645	5.93
JE34662-1	92233	2.59	151452	3.60	231125	4.05	88129	7.52	184565	5.93
ZZZZZZ	83819	2.59	151071	3.60	226107	4.05	87192	7.52	182924	5.93
JE34662-4 [c]	101534	2.59	151893	3.60	228523	4.05	88188	7.52	186182	5.93
ZZZZZZ	92706	2.59	150023	3.60	228042	4.06	86859	7.52	184625	5.93
ZZZZZZ	95739	2.59	146447	3.60	226476	4.05	85760	7.52	180066	5.93

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) (pH= 6)Sample pH did not satisfy field preservation criteria.

Surrogate Recovery Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE34662-1	5A26982.D	101	101	92	111
JE34662-2	5A26981.D	104	99	94	111
JE34662-4	5A26984.D	104	100	94	110
V5A726-BS	5A26964A.D	97	97	93	102
V5A726-BSD	5A26965.D	99	98	96	104
V5A726-MB	5A26966.D	99	99	94	109

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

Surrogate Recovery Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8260D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE34662-1	3D206562.D	112
JE34662-2	3D206561.D	111
V3D8503-BS	3D206547.D	101
V3D8503-BSD	3D206548.D	110
V3D8503-MB	3D206550.D	103

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	50-150%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection Standard Area Summaries
- Isotope Dilution Standard Recovery Summaries

Instrument Blank

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q366-IBLK	6Q70452.D	1	06/08/26	YB	n/a	n/a	T6Q366

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	104%	40-130%
	13C5-PFHxA	103%	40-130%
	13C4-PFHpA	105%	40-130%
	13C8-PFOA	104%	40-130%
	13C9-PFNA	107%	40-130%
	13C6-PFDA	103%	40-130%
	13C7-PFUnDA	107%	30-130%
	13C2-PFDoDA	102%	10-130%
	13C2-PFTeDA	105%	10-130%
	13C3-PFBS	109%	40-135%
	13C3-PFHxS	111%	40-130%
	13C8-PFOS	103%	40-130%
	13C8-FOSA	99%	40-130%
	d3-MeFOSA	96%	10-130%
	d5-EtFOSA	102%	10-130%
	d3-MeFOSAA	100%	40-170%
	d5-EtFOSAA	100%	25-135%
	d7-MeFOSE	101%	10-130%
	d9-EtFOSE	105%	10-130%
	13C2-4:2FTS	115%	40-200%
	13C2-6:2FTS	117%	40-200%
	13C2-8:2FTS	97%	40-300%
	13C3-HFPO-DA	104%	40-130%

Instrument Blank

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q367-IBLK	6Q70496.D	1	06/09/26	YB	n/a	n/a	T6Q367

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	100%	40-130%
	13C5-PFHxA	101%	40-130%
	13C4-PFHpA	100%	40-130%
	13C8-PFOA	99%	40-130%
	13C9-PFNA	102%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	102%	30-130%
	13C2-PFDoDA	105%	10-130%
	13C2-PFTeDA	104%	10-130%
	13C3-PFBS	103%	40-135%
	13C3-PFHxS	94%	40-130%
	13C8-PFOS	96%	40-130%
	13C8-FOSA	95%	40-130%
	d3-MeFOSA	97%	10-130%
	d5-EtFOSA	100%	10-130%
	d3-MeFOSAA	95%	40-170%
	d5-EtFOSAA	98%	25-135%
	d7-MeFOSE	96%	10-130%
	d9-EtFOSE	97%	10-130%
	13C2-4:2FTS	112%	40-200%
	13C2-6:2FTS	103%	40-200%
	13C2-8:2FTS	93%	40-300%
	13C3-HFPO-DA	101%	40-130%

Instrument Blank

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q611-IBLK	2Q45100.D	1	06/09/26	YB	n/a	n/a	T2Q611

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-3, JE34662-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	105%	40-130%
	13C5-PFHxA	105%	40-130%
	13C4-PFHpA	105%	40-130%
	13C8-PFOA	103%	40-130%
	13C9-PFNA	107%	40-130%
	13C6-PFDA	107%	40-130%
	13C7-PFUnDA	108%	30-130%
	13C2-PFDoDA	103%	10-130%
	13C2-PFTeDA	103%	10-130%
	13C3-PFBS	96%	40-135%
	13C3-PFHxS	102%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	105%	40-130%
	d3-MeFOSA	98%	10-130%
	d5-EtFOSA	104%	10-130%
	d3-MeFOSAA	106%	40-170%
	d5-EtFOSAA	104%	25-135%
	d7-MeFOSE	101%	10-130%
	d9-EtFOSE	103%	10-130%
	13C2-4:2FTS	121%	40-200%
	13C2-6:2FTS	117%	40-200%
	13C2-8:2FTS	114%	40-300%
	13C3-HFPO-DA	110%	40-130%

Instrument Blank

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T2Q611-ICCB	2Q45104.D	1	06/09/26	YB	n/a	n/a	T2Q611

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-3, JE34662-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	101%	40-130%
	13C5-PFHxA	97%	40-130%
	13C4-PFHpA	101%	40-130%
	13C8-PFOA	104%	40-130%
	13C9-PFNA	98%	40-130%
	13C6-PFDA	101%	40-130%
	13C7-PFUnDA	98%	30-130%
	13C2-PFDoDA	95%	10-130%
	13C2-PFTeDA	95%	10-130%
	13C3-PFBS	104%	40-135%
	13C3-PFHxS	107%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	101%	40-130%
	d3-MeFOSA	96%	10-130%
	d5-EtFOSA	98%	10-130%
	d3-MeFOSAA	99%	40-170%
	d5-EtFOSAA	101%	25-135%
	d7-MeFOSE	98%	10-130%
	d9-EtFOSE	99%	10-130%
	13C2-4:2FTS	125%	40-200%
	13C2-6:2FTS	123%	40-200%
	13C2-8:2FTS	121%	40-300%
	13C3-HFPO-DA	97%	40-130%

Instrument Blank

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q367-ICCB	6Q70526.D	1	06/09/26	YB	n/a	n/a	T6Q367

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	102%	5-130%
	13C5-PFPeA	103%	40-130%
	13C5-PFHxA	99%	40-130%
	13C4-PFHpA	103%	40-130%
	13C8-PFOA	101%	40-130%
	13C9-PFNA	99%	40-130%
	13C6-PFDA	102%	40-130%
	13C7-PFUnDA	105%	30-130%
	13C2-PFDoDA	102%	10-130%
	13C2-PFTeDA	108%	10-130%
	13C3-PFBS	96%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	94%	40-130%
	13C8-FOSA	98%	40-130%
	d3-MeFOSA	101%	10-130%
	d5-EtFOSA	100%	10-130%
	d3-MeFOSAA	99%	40-170%
	d5-EtFOSAA	103%	25-135%
	d7-MeFOSE	97%	10-130%
	d9-EtFOSE	101%	10-130%
	13C2-4:2FTS	113%	40-200%
	13C2-6:2FTS	116%	40-200%
	13C2-8:2FTS	103%	40-300%
	13C3-HFPO-DA	106%	40-130%

Instrument Blank

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T6Q367-ICCB	6Q70543.D	1	06/10/26	YB	n/a	n/a	T6Q367

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	103%	40-130%
	13C5-PFHxA	105%	40-130%
	13C4-PFHpA	104%	40-130%
	13C8-PFOA	103%	40-130%
	13C9-PFNA	105%	40-130%
	13C6-PFDA	101%	40-130%
	13C7-PFUnDA	104%	30-130%
	13C2-PFDoDA	100%	10-130%
	13C2-PFTeDA	104%	10-130%
	13C3-PFBS	90%	40-135%
	13C3-PFHxS	93%	40-130%
	13C8-PFOS	107%	40-130%
	13C8-FOSA	99%	40-130%
	d3-MeFOSA	110%	10-130%
	d5-EtFOSA	109%	10-130%
	d3-MeFOSAA	105%	40-170%
	d5-EtFOSAA	103%	25-135%
	d7-MeFOSE	102%	10-130%
	d9-EtFOSE	115%	10-130%
	13C2-4:2FTS	115%	40-200%
	13C2-6:2FTS	100%	40-200%
	13C2-8:2FTS	102%	40-300%
	13C3-HFPO-DA	105%	40-130%

Method Blank Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74281-MB	2Q45105.D	1	06/09/26	YB	06/05/26	OP74281	T2Q611

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-3, JE34662-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	100%	5-130%
	13C5-PFPeA	97%	40-130%
	13C5-PFHxA	97%	40-130%
	13C4-PFHpA	96%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	96%	40-130%
	13C6-PFDA	100%	40-130%
	13C7-PFUnDA	105%	30-130%
	13C2-PFDoDA	97%	10-130%
	13C2-PFTeDA	89%	10-130%
	13C3-PFBS	98%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	99%	40-130%
	13C8-FOSA	89%	40-130%
	d3-MeFOSA	67%	10-130%
	d5-EtFOSA	69%	10-130%
	d3-MeFOSAA	94%	40-170%
	d5-EtFOSAA	96%	25-135%
	d7-MeFOSE	77%	10-130%
	d9-EtFOSE	84%	10-130%
	13C2-4:2FTS	129%	40-200%
	13C2-6:2FTS	118%	40-200%
	13C2-8:2FTS	119%	40-300%
	13C3-HFPO-DA	101%	40-130%

Method Blank Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74389-MB	6Q70527.D	1	06/09/26	YB	06/09/26	OP74389	T6Q367

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	107%	5-130%
	13C5-PFPeA	106%	40-130%
	13C5-PFHxA	104%	40-130%
	13C4-PFHpA	107%	40-130%
	13C8-PFOA	104%	40-130%
	13C9-PFNA	109%	40-130%
	13C6-PFDA	110%	40-130%
	13C7-PFUnDA	113%	30-130%
	13C2-PFDoDA	104%	10-130%
	13C2-PFTeDA	117%	10-130%
	13C3-PFBS	102%	40-135%
	13C3-PFHxS	109%	40-130%
	13C8-PFOS	93%	40-130%
	13C8-FOSA	81%	40-130%
	d3-MeFOSA	75%	10-130%
	d5-EtFOSA	79%	10-130%
	d3-MeFOSAA	95%	40-170%
	d5-EtFOSAA	95%	25-135%
	d7-MeFOSE	75%	10-130%
	d9-EtFOSE	80%	10-130%
	13C2-4:2FTS	116%	40-200%
	13C2-6:2FTS	112%	40-200%
	13C2-8:2FTS	104%	40-300%
	13C3-HFPO-DA	105%	40-130%

Blank Spike Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74281-LLBS	2Q45106.D	1	06/09/26	YB	06/05/26	OP74281	T2Q611

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-3, JE34662-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0035	88	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0038	95	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0041	103	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0035	88	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0038	104	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0040	108	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	104%	5-130%
	13C5-PFPeA	102%	40-130%
	13C5-PFHxA	101%	40-130%
	13C4-PFHpA	103%	40-130%
	13C8-PFOA	103%	40-130%
	13C9-PFNA	105%	40-130%
	13C6-PFDA	109%	40-130%
	13C7-PFUnDA	110%	30-130%
	13C2-PFDoDA	101%	10-130%
	13C2-PFTeDA	97%	10-130%
	13C3-PFBS	105%	40-135%
	13C3-PFHxS	101%	40-130%
	13C8-PFOS	105%	40-130%
	13C8-FOSA	92%	40-130%
	d3-MeFOSA	67%	10-130%
	d5-EtFOSA	74%	10-130%
	d3-MeFOSAA	103%	40-170%
	d5-EtFOSAA	102%	25-135%
	d7-MeFOSE	82%	10-130%
	d9-EtFOSE	88%	10-130%
	13C2-4:2FTS	119%	40-200%
	13C2-6:2FTS	117%	40-200%
	13C2-8:2FTS	105%	40-300%
	13C3-HFPO-DA	108%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74389-LLBS	6Q70528.D	1	06/09/26	YB	06/09/26	OP74389	T6Q367

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0037	93	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0036	90	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0033	83	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0033	83	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0036	98	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0036	97	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	108%	5-130%
	13C5-PFPeA	107%	40-130%
	13C5-PFHxA	107%	40-130%
	13C4-PFHpA	105%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	100%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	98%	30-130%
	13C2-PFDoDA	93%	10-130%
	13C2-PFTeDA	105%	10-130%
	13C3-PFBS	106%	40-135%
	13C3-PFHxS	103%	40-130%
	13C8-PFOS	100%	40-130%
	13C8-FOSA	100%	40-130%
	d3-MeFOSA	95%	10-130%
	d5-EtFOSA	99%	10-130%
	d3-MeFOSAA	98%	40-170%
	d5-EtFOSAA	106%	25-135%
	d7-MeFOSE	101%	10-130%
	d9-EtFOSE	101%	10-130%
	13C2-4:2FTS	128%	40-200%
	13C2-6:2FTS	117%	40-200%
	13C2-8:2FTS	102%	40-300%
	13C3-HFPO-DA	108%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74281-BS	2Q45107.D	1	06/09/26	YB	06/05/26	OP74281	T2Q611

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-3, JE34662-1A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0265	106	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0259	104	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0267	107	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0260	104	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0227	99	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0234	101	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	101%	5-130%
	13C5-PFPeA	98%	40-130%
	13C5-PFHxA	97%	40-130%
	13C4-PFHpA	96%	40-130%
	13C8-PFOA	100%	40-130%
	13C9-PFNA	95%	40-130%
	13C6-PFDA	95%	40-130%
	13C7-PFUnDA	101%	30-130%
	13C2-PFDoDA	92%	10-130%
	13C2-PFTeDA	87%	10-130%
	13C3-PFBS	95%	40-135%
	13C3-PFHxS	109%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	83%	40-130%
	d3-MeFOSA	64%	10-130%
	d5-EtFOSA	69%	10-130%
	d3-MeFOSAA	98%	40-170%
	d5-EtFOSAA	95%	25-135%
	d7-MeFOSE	73%	10-130%
	d9-EtFOSE	81%	10-130%
	13C2-4:2FTS	117%	40-200%
	13C2-6:2FTS	115%	40-200%
	13C2-8:2FTS	105%	40-300%
	13C3-HFPO-DA	104%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74389-BS	6Q70529.D	1	06/09/26	YB	06/09/26	OP74389	T6Q367

The QC reported here applies to the following samples: **Method:** EPA 1633

JE34662-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0263	105	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0251	100	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0253	101	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0231	92	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0222	97	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0234	101	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	109%	5-130%
	13C5-PFPeA	111%	40-130%
	13C5-PFHxA	109%	40-130%
	13C4-PFHpA	108%	40-130%
	13C8-PFOA	110%	40-130%
	13C9-PFNA	112%	40-130%
	13C6-PFDA	114%	40-130%
	13C7-PFUnDA	110%	30-130%
	13C2-PFDoDA	112%	10-130%
	13C2-PFTeDA	110%	10-130%
	13C3-PFBS	107%	40-135%
	13C3-PFHxS	114%	40-130%
	13C8-PFOS	102%	40-130%
	13C8-FOSA	99%	40-130%
	d3-MeFOSA	92%	10-130%
	d5-EtFOSA	92%	10-130%
	d3-MeFOSAA	110%	40-170%
	d5-EtFOSAA	107%	25-135%
	d7-MeFOSE	97%	10-130%
	d9-EtFOSE	104%	10-130%
	13C2-4:2FTS	120%	40-200%
	13C2-6:2FTS	127%	40-200%
	13C2-8:2FTS	111%	40-300%
	13C3-HFPO-DA	111%	40-130%

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T2Q611-CC611 **Injection Date:** 06/09/26
Lab File ID: 2Q45102.D **Injection Time:** 17:41
Instrument ID: GCMS2Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	83336	2.74	56603	5.18	127651	6.80	42873	7.33	33684	7.83
Check Std [c]	79118	2.74	53038	5.17	122474	6.80	40593	7.33	34177	7.83
Upper Limit [d]	166672	3.14	113206	5.57	255302	7.20	85746	7.73	67368	8.23
Lower Limit [e]	41668	2.34	28302	4.77	63826	6.40	21437	6.93	16842	7.43

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T2Q611-ICCB	78958	2.74	53443	5.17	120096	6.79	39770	7.33	33006	7.82	1
OP74281-MB	81206	2.74	55208	5.18	120810	6.79	42026	7.33	31693	7.83	1
OP74281-LLBS	82097	2.75	55069	5.17	125286	6.79	39955	7.33	31304	7.83	1
OP74281-BS	80111	2.74	55549	5.17	124167	6.79	42801	7.33	33225	7.82	1
OP74281-MS	66307	2.74	45603	5.17	105298	6.79	36567	7.33	27756	7.82	1
OP74281-MSD	70571	2.74	49550	5.17	108903	6.79	39027	7.33	29794	7.83	1
JE34868-1	83475	2.74	52460	5.17	116550	6.79	41700	7.33	32360	7.82	5
ZZZZZZ	69450	2.74	46900	5.17	100905	6.79	37665	7.33	28365	7.83	5
ZZZZZZ	74718	2.73	52235	5.18	115379	6.79	37018	7.33	29737	7.82	1
ZZZZZZ	74037	2.75	48474	5.17	109187	6.79	37887	7.33	28760	7.82	1
ZZZZZZ	78401	2.75	52519	5.18	124734	6.79	41424	7.33	32727	7.82	1
JE34662-3	80033	2.74	53310	5.17	119951	6.79	40260	7.33	32740	7.82	1
JE34662-1A	83853	2.75	55430	5.17	124319	6.79	41223	7.33	33680	7.82	1
T2Q611-ICCB	75993	2.74	49984	5.17	116980	6.79	39513	7.33	29637	7.82	1
OP74352-MB	79008	2.74	53900	5.17	128465	6.79	39544	7.33	32197	7.82	1
OP74352-LLBS	57402	2.74	40013	5.17	91422	6.79	28476	7.33	23478	7.82	1
OP74352-BS	81346	2.74	53857	5.18	127317	6.79	43020	7.33	32113	7.82	1
OP74352-MS	79922	2.74	59926	5.17	128458	6.79	45358	7.33	35984	7.82	1
OP74352-MSD	77702	2.74	57646	5.17	125173	6.79	42956	7.33	32645	7.82	1
ZZZZZZ	84700	2.74	58325	5.17	133478	6.79	44957	7.33	36005	7.82	1
ZZZZZZ	75457	2.75	50462	5.18	118031	6.79	39001	7.33	28694	7.82	1
ZZZZZZ	73902	2.74	50061	5.17	120970	6.79	37772	7.33	29598	7.82	1
ZZZZZZ	84526	2.75	57901	5.17	131131	6.79	44634	7.33	34221	7.82	1
ZZZZZZ	78417	2.75	54603	5.17	124977	6.79	41344	7.33	33272	7.82	1
ZZZZZZ	79150	2.74	54643	5.18	121281	6.79	40055	7.33	31233	7.82	1
ZZZZZZ	87834	2.75	60710	5.17	139458	6.79	45233	7.33	36703	7.82	1
ZZZZZZ	79509	2.74	52033	5.17	115194	6.79	40326	7.32	31875	7.82	1
T2Q611-ICCB	71912	2.74	48464	5.17	114557	6.79	38335	7.32	30493	7.82	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q611-CC611	**Injection Date:**	06/09/26
Lab File ID:	2Q45102.D	**Injection Time:**	17:41
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]

IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T2Q611-ICC611 2Q45095.D 06/09/26 15:51. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q611-CC611	**Injection Date:**	06/09/26
Lab File ID:	2Q45102.D	**Injection Time:**	17:41
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	10874	6.89	16709	7.97
Check Std [c]	10357	6.89	16961	7.97
Upper Limit [d]	21748	7.29	33418	8.37
Lower Limit [e]	5437	6.49	8355	7.57

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T2Q611-ICCB	9489	6.89	16964	7.97	1
OP74281-MB	10058	6.89	16322	7.97	1
OP74281-LLBS	10642	6.89	16206	7.97	1
OP74281-BS	10254	6.89	15824	7.97	1
OP74281-MS	9210	6.89	14149	7.97	1
OP74281-MSD	9264	6.89	14846	7.97	1
JE34868-1	10630	6.89	17130	7.97	5
ZZZZZZ	9190	6.89	13450	7.97	5
ZZZZZZ	9863	6.89	15454	7.97	1
ZZZZZZ	9703	6.89	14252	7.97	1
ZZZZZZ	10781	6.89	17251	7.97	1
JE34662-3	9905	6.89	16385	7.97	1
JE34662-1A	11006	6.89	17396	7.97	1
T2Q611-ICCB	9930	6.88	15963	7.97	1
OP74352-MB	10864	6.88	17136	7.97	1
OP74352-LLBS	7560	6.88	12204	7.97	1
OP74352-BS	10840	6.89	16856	7.97	1
OP74352-MS	11136	6.88	19428	7.97	1
OP74352-MSD	10935	6.89	18484	7.97	1
ZZZZZZ	11878	6.89	19458	7.97	1
ZZZZZZ	9875	6.89	17188	7.97	1
ZZZZZZ	10137	6.88	15803	7.97	1
ZZZZZZ	11261	6.88	18753	7.97	1
ZZZZZZ	10762	6.88	18161	7.97	1
ZZZZZZ	9832	6.89	17050	7.97	1
ZZZZZZ	12925	6.89	19090	7.97	1
ZZZZZZ	10447	6.88	16334	7.97	1
T2Q611-ICCB	9744	6.88	14558	7.97	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T2Q611-CC611	**Injection Date:**	06/09/26
Lab File ID:	2Q45102.D	**Injection Time:**	17:41
Instrument ID:	GCMS2Q	**Method:**	EPA 1633

Lab Sample ID	IS 6 AREA	IS 6 RT	IS 7 AREA	IS 7 RT	DF [a]

(b) Initial Cal is: T2Q611-ICC611 2Q45095.D 06/09/26 15:51. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T6Q367-CC366 **Injection Date:** 06/09/26
Lab File ID: 6Q70497.D **Injection Time:** 11:41
Instrument ID: GCMS6Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	235426	3.17	183982	5.71	330662	7.08	123091	7.58	101809	8.05
Check Std [c]	248691	3.16	195113	5.71	354326	7.08	129139	7.58	110361	8.05
Upper Limit [d]	470852	3.56	367964	6.11	661324	7.48	246182	7.98	203618	8.45
Lower Limit [e]	117713	2.76	91991	5.31	165331	6.68	61546	7.18	50905	7.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T6Q367-ICCB	232243	3.20	184725	5.71	327547	7.08	122785	7.59	105524	8.06	1
OP74351-MB	247145	3.19	192821	5.71	337461	7.08	125361	7.59	103387	8.06	1
OP74351-LLBS	243176	3.19	192111	5.71	344664	7.10	128345	7.59	109749	8.06	1
OP74351-BS	248920	3.19	192308	5.71	350226	7.08	128437	7.59	108616	8.06	1
OP74351-MS	262994	3.19	201947	5.71	364059	7.10	135301	7.59	113677	8.06	1
OP74351-MSD	252511	3.19	189632	5.71	348197	7.10	126266	7.59	111360	8.05	1
ZZZZZZ	234835	3.19	192917	5.71	354421	7.08	132224	7.58	106107	8.05	1
ZZZZZZ	244133	3.19	188299	5.71	343379	7.10	126221	7.59	111094	8.05	1
ZZZZZZ	246092	3.19	193018	5.71	349313	7.10	131055	7.59	117378	8.05	1
ZZZZZZ	253063	3.19	194330	5.73	345625	7.10	129490	7.58	106893	8.05	1
ZZZZZZ	243225	3.19	184459	5.71	338739	7.10	130952	7.59	105016	8.06	1
ZZZZZZ	259175	3.19	195405	5.71	361196	7.08	128282	7.58	107624	8.05	1
ZZZZZZ	235587	3.19	183302	5.71	333197	7.10	128791	7.58	103957	8.05	1
ZZZZZZ	246210	3.19	188986	5.73	332043	7.10	128044	7.58	108095	8.05	1
ZZZZZZ	232768	3.19	179431	5.71	328288	7.10	118923	7.58	104517	8.05	1
ZZZZZZ	242279	3.19	189170	5.71	339138	7.08	127113	7.58	110596	8.05	1
T6Q367-ICCB	248768	3.16	195068	5.71	350599	7.10	130389	7.58	105308	8.05	1
ZZZZZZ	226907	3.19	183766	5.71	322630	7.08	118324	7.58	101255	8.05	1
ZZZZZZ	251468	3.19	195020	5.71	359692	7.10	134608	7.58	115363	8.05	1
ZZZZZZ	251020	3.19	190702	5.71	353348	7.10	134374	7.58	115226	8.05	1
ZZZZZZ	240496	3.19	180981	5.73	343700	7.10	126352	7.58	108395	8.05	1
ZZZZZZ	241357	3.19	190125	5.71	336225	7.10	125137	7.58	106827	8.05	1
ZZZZZZ	247223	3.19	190845	5.73	346359	7.10	130492	7.58	116525	8.05	1
ZZZZZZ	240476	3.19	184034	5.71	334133	7.08	127218	7.58	108863	8.05	1
JE35522-12	253996	3.19	195382	5.71	346723	7.10	131539	7.59	112153	8.05	1
T6Q367-ICCB	249865	3.17	193390	5.71	351837	7.08	129452	7.58	113902	8.05	1
T6Q367-ICCB	249865	3.17	193390	5.71	351837	7.08	129452	7.58	113902	8.05	1
OP74389-MB	259424	3.17	204075	5.71	366163	7.10	132308	7.58	109395	8.05	1
OP74389-LLBS	244407	3.17	191123	5.71	345630	7.10	129194	7.58	106815	8.05	1
OP74389-BS	247986	3.17	190104	5.71	344501	7.10	128052	7.58	107543	8.05	1
OP74389-DUP	194899	3.17	167505	5.71	298350	7.08	111806	7.58	90872	8.05	1
ZZZZZZ	244405	3.17	192238	5.71	340047	7.10	123160	7.58	108291	8.05	1
ZZZZZZ	230806	3.17	178741	5.71	326339	7.08	121777	7.58	103104	8.05	1

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q367-CC366	**Injection Date:**	06/09/26
Lab File ID:	6Q70497.D	**Injection Time:**	11:41
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
ZZZZZZ	219487	3.16	175985	5.71	326592	7.08	125132	7.58	108510	8.05	1
JE34662-2A	229572	3.17	178787	5.71	321542	7.08	122349	7.58	96086	8.05	1
JE34725-1	179259	3.16	169550	5.71	322372	7.08	120445	7.58	103726	8.05	1
ZZZZZZ	235076	3.17	177040	5.71	329880	7.08	127780	7.58	102397	8.05	1
ZZZZZZ	239693	3.17	183074	5.71	323957	7.08	120163	7.58	99619	8.05	1
ZZZZZZ	248345	3.17	190633	5.71	346140	7.08	127660	7.58	109836	8.05	1
T6Q367-ICCB	248067	3.17	193367	5.71	351846	7.08	130593	7.58	110065	8.05	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q366-ICC366 6Q70447.D 06/08/26 17:31. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q367-CC366	**Injection Date:**	06/09/26
Lab File ID:	6Q70497.D	**Injection Time:**	11:41
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	23091	7.20	37197	8.21
Check Std [c]	24153	7.20	39372	8.21
Upper Limit [d]	46182	7.60	74394	8.61
Lower Limit [e]	11546	6.80	18599	7.81

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T6Q367-ICCB	23271	7.20	36226	8.21	1
OP74351-MB	22329	7.20	37229	8.21	1
OP74351-LLBS	22745	7.20	40360	8.21	1
OP74351-BS	23407	7.20	38395	8.21	1
OP74351-MS	23575	7.20	38427	8.21	1
OP74351-MSD	23283	7.20	40673	8.21	1
ZZZZZZ	23984	7.20	35353	8.21	1
ZZZZZZ	23795	7.20	38964	8.21	1
ZZZZZZ	23786	7.20	38082	8.21	1
ZZZZZZ	23073	7.20	36254	8.21	1
ZZZZZZ	22593	7.21	36717	8.21	1
ZZZZZZ	24327	7.20	38293	8.21	1
ZZZZZZ	22595	7.20	37422	8.21	1
ZZZZZZ	22375	7.20	38459	8.21	1
ZZZZZZ	22810	7.20	37073	8.21	1
ZZZZZZ	24367	7.20	38917	8.21	1
T6Q367-ICCB	23422	7.20	36605	8.21	1
ZZZZZZ	21066	7.20	32617	8.21	1
ZZZZZZ	23810	7.20	38913	8.21	1
ZZZZZZ	23404	7.20	38672	8.21	1
ZZZZZZ	23620	7.20	36266	8.21	1
ZZZZZZ	22416	7.20	35665	8.21	1
ZZZZZZ	22562	7.20	38461	8.21	1
ZZZZZZ	23625	7.20	39583	8.21	1
JE35522-12	25359	7.20	37038	8.21	1
T6Q367-ICCB	24170	7.20	40244	8.21	1
T6Q367-ICCB	24170	7.20	40244	8.21	1
OP74389-MB	25017	7.20	43323	8.21	1
OP74389-LLBS	22088	7.20	35020	8.21	1
OP74389-BS	22806	7.20	38647	8.21	1
OP74389-DUP	20427	7.20	32557	8.21	1
ZZZZZZ	23830	7.20	37399	8.21	1
ZZZZZZ	22442	7.20	38214	8.21	1

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q367-CC366	**Injection Date:**	06/09/26
Lab File ID:	6Q70497.D	**Injection Time:**	11:41
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
ZZZZZZ	23161	7.20	34300	8.21	1
JE34662-2A	20726	7.20	35199	8.21	1
JE34725-1	21990	7.20	35007	8.21	1
ZZZZZZ	21778	7.20	35281	8.21	1
ZZZZZZ	23294	7.20	36979	8.21	1
ZZZZZZ	24590	7.20	36019	8.21	1
T6Q367-ICCB	24690	7.20	37965	8.20	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q366-ICC366 6Q70447.D 06/08/26 17:31. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T6Q367-CC366 **Injection Date:** 06/09/26
Lab File ID: 6Q70525.D **Injection Time:** 20:51
Instrument ID: GCMS6Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	235426	3.17	183982	5.71	330662	7.08	123091	7.58	101809	8.05
Check Std [c]	272870	3.16	211120	5.71	378003	7.10	146948	7.58	116855	8.05
Upper Limit [d]	470852	3.56	367964	6.11	661324	7.50	246182	7.98	203618	8.45
Lower Limit [e]	117713	2.76	91991	5.31	165331	6.70	61546	7.18	50905	7.65

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T6Q367-ICCB	249865	3.17	193390	5.71	351837	7.08	129452	7.58	113902	8.05	1
T6Q367-ICCB	249865	3.17	193390	5.71	351837	7.08	129452	7.58	113902	8.05	1
OP74389-MB	259424	3.17	204075	5.71	366163	7.10	132308	7.58	109395	8.05	1
OP74389-LLBS	244407	3.17	191123	5.71	345630	7.10	129194	7.58	106815	8.05	1
OP74389-BS	247986	3.17	190104	5.71	344501	7.10	128052	7.58	107543	8.05	1
OP74389-DUP	194899	3.17	167505	5.71	298350	7.08	111806	7.58	90872	8.05	1
ZZZZZZ	244405	3.17	192238	5.71	340047	7.10	123160	7.58	108291	8.05	1
ZZZZZZ	230806	3.17	178741	5.71	326339	7.08	121777	7.58	103104	8.05	1
ZZZZZZ	219487	3.16	175985	5.71	326592	7.08	125132	7.58	108510	8.05	1
JE34662-2A	229572	3.17	178787	5.71	321542	7.08	122349	7.58	96086	8.05	1
JE34725-1	179259	3.16	169550	5.71	322372	7.08	120445	7.58	103726	8.05	1
ZZZZZZ	235076	3.17	177040	5.71	329880	7.08	127780	7.58	102397	8.05	1
ZZZZZZ	239693	3.17	183074	5.71	323957	7.08	120163	7.58	99619	8.05	1
ZZZZZZ	248345	3.17	190633	5.71	346140	7.08	127660	7.58	109836	8.05	1
T6Q367-ECC366	272995	3.16	220407	5.71	374197	7.08	147406	7.58	116957	8.05	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q366-ICC366 6Q70447.D 06/08/26 17:31. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T6Q367-CC366	**Injection Date:**	06/09/26
Lab File ID:	6Q70525.D	**Injection Time:**	20:51
Instrument ID:	GCMS6Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	23091	7.20	37197	8.21
Check Std [c]	27733	7.20	41741	8.21
Upper Limit [d]	46182	7.60	74394	8.61
Lower Limit [e]	11546	6.80	18599	7.81

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T6Q367-ICCB	24170	7.20	40244	8.21	1
T6Q367-ICCB	24170	7.20	40244	8.21	1
OP74389-MB	25017	7.20	43323	8.21	1
OP74389-LLBS	22088	7.20	35020	8.21	1
OP74389-BS	22806	7.20	38647	8.21	1
OP74389-DUP	20427	7.20	32557	8.21	1
ZZZZZZ	23830	7.20	37399	8.21	1
ZZZZZZ	22442	7.20	38214	8.21	1
ZZZZZZ	23161	7.20	34300	8.21	1
JE34662-2A	20726	7.20	35199	8.21	1
JE34725-1	21990	7.20	35007	8.21	1
ZZZZZZ	21778	7.20	35281	8.21	1
ZZZZZZ	23294	7.20	36979	8.21	1
ZZZZZZ	24590	7.20	36019	8.21	1
T6Q367-ECC366	26825	7.20	41039	8.20	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T6Q366-ICC366 6Q70447.D 06/08/26 17:31. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Isotope Dilution Standard Recovery Summary

Job Number: JE34662
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE34662-3	2Q45117.D	98	101	96	93	110	106
JE34662-1A	2Q45118.D	100	100	102	98	99	100
JE34662-2A	6Q70537.D	109	109	106	107	117	105
OP74281-BS	2Q45107.D	96	100	95	95	109	101
OP74281-LLBS	2Q45106.D	103	103	105	109	101	105
OP74281-MB	2Q45105.D	96	102	96	100	99	99
OP74389-BS	6Q70529.D	108	110	112	114	114	102
OP74389-LLBS	6Q70528.D	105	102	100	98	103	100
OP74389-MB	6Q70527.D	107	104	109	110	109	93
T2Q611-IBLK	2Q45100.D	105	103	107	107	102	101
T2Q611-ICCB	2Q45104.D	101	104	98	101	107	101
T6Q366-IBLK	6Q70452.D	105	104	107	103	111	103
T6Q367-IBLK	6Q70496.D	100	99	102	98	94	96
T6Q367-ICCB	6Q70543.D	104	103	105	101	93	107
T6Q367-ICCB	6Q70526.D	103	101	99	102	99	94

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFHpA	40-130%
S2 = 13C8-PFOA	40-130%
S3 = 13C9-PFNA	40-130%
S4 = 13C6-PFDA	40-130%
S5 = 13C3-PFHxS	40-130%
S6 = 13C8-PFOS	40-130%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62262
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/23/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	17	77		
Antimony	6.0	1.7	4.1		
Arsenic	3.0	2.1	2.5		
Barium	200	.8	17		
Beryllium	1.0	.3	.5		
Bismuth	20	2.3	4.8		
Boron	100	2.3	85		
Cadmium	3.0	.3	1.2		
Calcium	5000	6.6	130	4.3	<5000
Cerium	100				
Chromium	10	.3	1.5		
Cobalt	50	.4	2.5		
Copper	10	.8	4.1		
Iron	100	5.3	30	16.6	<100
Lead	3.0	1.1	2.4		
Lithium	50	4.8	9.1		
Magnesium	5000	32	200	-1.7	<5000
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.4	1.8		
Phosphorus	50	1.2	14		
Potassium	10000	77	200		
Selenium	10	3.2	5.5	-2.5	<10
Silicon	200	1.7	130		
Silver	10	1	2.4		
Sodium	10000	34	900		
Strontium	10	.3	1.6		
Sulfur	50	3	18		
Thallium	10	1.8	1.9		
Tin	50	.8	4.7		
Titanium	10	.5	1.9		
Tungsten	50	2.6	19		
Vanadium	50	.6	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62262
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/23/26

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.1	8.5		
Zirconium	10	.3	4.9		

Associated samples MP62262: JE34662-1, JE34662-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62262
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/23/26 05/23/26

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits	BSD Result	Spikelot MP200.7A	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	anr								
Barium	anr								
Beryllium									
Bismuth									
Boron									
Cadmium	anr								
Calcium	27800	25000	111.2	85-115	27200	25000	108.8	2.2	20
Cerium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	27700	25000	110.8	85-115	27200	25000	108.8	1.8	20
Lead	anr								
Lithium									
Magnesium	27700	25000	110.8	85-115	27100	25000	108.4	2.2	20
Manganese									
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium									
Selenium	2360	2000	118.0*(a	85-115	2330	2000	116.5*(a	1.3	20
Silicon									
Silver	anr								
Sodium									
Strontium									
Sulfur									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62262
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/23/26 05/23/26

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits	BSD Result	Spikelot MP200.7A % Rec	BSD RPD	QC Limit
Zinc	anr						
Zirconium							

Associated samples MP62262: JE34662-1, JE34662-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Spike blank indicates possible high bias, but all associated samples < RL.

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62262
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/23/26

Metal	JE34356-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Bismuth				
Boron				
Cadmium	anr			
Calcium	58300	55000	5.7	0-10
Cerium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	1200	1140	4.8	0-10
Lead	anr			
Lithium				
Magnesium	24900	23800	4.1	0-10
Manganese				
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	anr			
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62262
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 05/23/26

Metal	JE34356-1 Original SDL 1:5	%DIF	QC Limits
Zinc	anr		
Zirconium			

Associated samples MP62262: JE34662-1, JE34662-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62267
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/23/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88	0.066	<2.0
Arsenic	1.0	.025	.25	-0.0068	<1.0
Barium	1.0	.009	.36		
Beryllium	0.50	.005	.065		
Boron	50	.85	18		
Cadmium	0.50	.01	.099	0.0086	<0.50
Calcium	250	3.6	35		
Chromium	4.0	.018	.33	0.053	<4.0
Cobalt	0.50	.003	.06		
Copper	4.0	.024	.65	0.22	<4.0
Iron	50	.24	12		
Lead	0.50	.008	.14	0.041	<0.50
Magnesium	250	.19	43		
Manganese	1.0	.012	.38		
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	.26	0.18	<4.0
Potassium	250	.78	43		
Selenium	1.0	.044	.38		
Silver	2.0	.004	.1	0.027	<2.0
Sodium	250	1.5	50		
Strontium	5.0	.014	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7	2.3	<10

Associated samples MP62267: JE34662-1, JE34662-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62267
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date:		05/23/26					05/23/26	
Metal	BSP Result	Spikelot MPX200.8B% Rec	QC Limits	BSD Result	Spikelot MPX200.8B% Rec		BSD RPD	QC Limit
Aluminum	anr							
Antimony	85.5	80	106.9	85-115	88.7	80	110.9	3.7	20
Arsenic	81.0	80	101.3	85-115	83.6	80	104.5	3.2	20
Barium	anr							
Beryllium	anr							
Boron								
Cadmium	82.7	80	103.4	85-115	86.1	80	107.6	4.0	20
Calcium	anr							
Chromium	82.4	80	103.0	85-115	86.0	80	107.5	4.3	20
Cobalt	anr							
Copper	82.2	80	102.8	85-115	86.1	80	107.6	4.6	20
Iron	anr							
Lead	82.3	80	102.9	85-115	86.2	80	107.8	4.6	20
Magnesium	anr							
Manganese	anr							
Molybdenum								
Nickel	82.0	80	102.5	85-115	85.7	80	107.1	4.4	20
Potassium	anr							
Selenium	anr							
Silver	85.7	80	107.1	85-115	88.2	80	110.3	2.9	20
Sodium	anr							
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium	anr							
Zinc	82.3	80	102.9	85-115	84.5	80	105.6	2.6	20

Associated samples MP62267: JE34662-1, JE34662-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62304 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 05/26/26

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.036	.092	0.016	<0.20

Associated samples MP62304: JE34662-1, JE34662-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62304
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date:			05/26/26					05/26/26	
Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	1.9	2	95.0	85-115	1.9	2	95.0	0.0	

Associated samples MP62304: JE34662-1, JE34662-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JE34662
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP70504/GN83679	2.0	0.0	mg/l	80	87.8	109.8	90-110%
Chromium, Hexavalent	GN83537	0.010	0.0	mg/l	0.150	0.151	100.7	90-110%
Cyanide	GP70561/GN83862	0.010	0.0	mg/l	0.2	0.205	102.5	90-110%
HEM Petroleum Hydrocarbons	GP70506/GN83706	5.0	0.0	mg/l	20	19.7	98.5	64-132%
Hardness, Total as CaCO3	GN83910	5.0	0.0	mg/l	80	80.0	100.0	80-120%
Hardness, Total as CaCO3	GN83910			mg/l	160	160	100.0	80-120%
Nitrogen, Ammonia	GP70616/GN83864	0.20	0.0	mg/l	1	1.02	102.0	80-120%
Phenols	GP70468/GN83861	0.20	0.0	mg/l	0.5	0.467	93.4	90-110%
Solids, Total Dissolved	GN83760	10	0.0	mg/l	500	498	99.6	71-110%
Solids, Total Suspended	GN83722	4.0	0.0	mg/l	50	49.9	99.8	84-111%
Sulfate	GP70504/GN83679	2.0	0.0	mg/l	80	85.8	107.3	90-110%
Turbidity	GN83543	0.30	0.10	NTU	20	19.3	96.5	90-110%

Associated Samples:
Batch GN83537: JE34662-1, JE34662-2
Batch GN83543: JE34662-1, JE34662-2
Batch GN83722: JE34662-1, JE34662-2
Batch GN83760: JE34662-1, JE34662-2
Batch GN83910: JE34662-1, JE34662-2
Batch GP70468: JE34662-1, JE34662-2
Batch GP70504: JE34662-1, JE34662-2
Batch GP70506: JE34662-2
Batch GP70561: JE34662-1, JE34662-2
Batch GP70616: JE34662-1, JE34662-2
(*) Outside of QC limits

The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

117-367085-25001

SGS Job Number: JE36565

Sampling Date: 06/17/26



Report to:

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Total number of pages in report: 65

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JE36565

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JE36565-1	06/17/26	11:30	CB	06/17/26	AQ	Influent	INFLUENT
JE36565-1A	06/17/26	11:30	CB	06/17/26	AQ	Influent	INFLUENT
JE36565-2	06/17/26	11:50	CB	06/17/26	AQ	Effluent	EFFLUENT
JE36565-2A	06/17/26	11:50	CB	06/17/26	AQ	Effluent	EFFLUENT
JE36565-3	06/17/26	11:00	CB	06/17/26	AQ	Water	MID
JE36565-4	06/17/26	11:50	CB	06/17/26	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Tetra Tech **Job No:** JE36565

Site: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA **Report Date** 7/14/2026 12:21:18 P

On 06/17/2026, 3 sample(s), 1 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE36565 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method EPA 624.1

Matrix: AQ **Batch ID:** V2V4703

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** V2V4708

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Volatiles By Method SW846 8260D BY SIM

Matrix: AQ **Batch ID:** V3D8505

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method EPA 1633

Matrix: AQ **Batch ID:** OP74715

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 200.7

Matrix: AQ **Batch ID:** MP62847

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE36565-1SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Iron are outside control limits for sample MP62847-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP62849

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method EPA 245.1

Matrix: AQ **Batch ID:** MP62826

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 1664A

Matrix: AQ **Batch ID:** GP71400

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 180.1

Matrix: AQ **Batch ID:** GN84739

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP71214

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP71194

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 420.4/LACHAT

Matrix: AQ **Batch ID:** GP71220

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2340 C-11/21

Matrix: AQ **Batch ID:** GN85042

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 C-15/20

Matrix: AQ **Batch ID:** GN84886

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 D-15/20

Matrix: AQ **Batch ID:** GN84947

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM4500NH3 H-11/21LAC

Matrix: AQ **Batch ID:** GP71274

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SW846 6010/7196A M

Matrix: AQ **Batch ID:** R223920

- The data for SW846 6010/7196A M meets quality control requirements.
- JE36565-2 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

Matrix: AQ **Batch ID:** R223921

- The data for SW846 6010/7196A M meets quality control requirements.
- JE36565-1 for Chromium, Trivalent: Calculated as: (Chromium) - (Chromium, Hexavalent)

General Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN84732

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE36565
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 06/17/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE36565-1	**INFLUENT**					
1,1-Dichloroethane		4.3	1.0	0.42	ug/l	EPA 624.1
1,1-Dichloroethene		20.8	1.0	0.45	ug/l	EPA 624.1
cis-1,2-Dichloroethene		1.6	1.0	0.51	ug/l	EPA 624.1
Tetrachloroethene		175	1.0	0.41	ug/l	EPA 624.1
1,1,1-Trichloroethane		56.3	1.0	0.43	ug/l	EPA 624.1
Trichloroethene		5.2	1.0	0.43	ug/l	EPA 624.1
Calcium		234000	10000	250	ug/l	EPA 200.7
Chromium		1.1 J	4.0	0.33	ug/l	EPA 200.8
Copper		1.5 J	4.0	0.65	ug/l	EPA 200.8
Magnesium		87100	5000	200	ug/l	EPA 200.7
Chloride		773	8.0	3.3	mg/l	EPA 300/SW846 9056A
Cyanide		0.0041 J	0.010	0.0041	mg/l	EPA 335.4/LACHAT
Hardness, Total as CaCO3		980	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		2000	10	6.0	mg/l	SM2540 C-15/20
Solids, Total Suspended		1.0 J	4.0	0.90	mg/l	SM2540 D-15/20
Turbidity		0.23 J	0.30	0.034	NTU	EPA 180.1
JE36565-1A	**INFLUENT**					
Perfluoroheptanoic acid		0.0432	0.0020	0.00051	ug/l	EPA 1633
Perfluorooctanoic acid		0.103	0.0020	0.00076	ug/l	EPA 1633
Perfluorononanoic acid		0.0822	0.0020	0.00041	ug/l	EPA 1633
Perfluorodecanoic acid		0.0336	0.0020	0.00063	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0037	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0265	0.0020	0.00044	ug/l	EPA 1633
JE36565-2	**EFFLUENT**					
1,4-Dioxane		0.40	0.30	0.085	ug/l	SW846 8260D BY SIM
Calcium		238000	10000	250	ug/l	EPA 200.7
Chromium		0.99 J	4.0	0.33	ug/l	EPA 200.8
Magnesium		84400	5000	200	ug/l	EPA 200.7
Chloride		791	8.0	3.3	mg/l	EPA 300/SW846 9056A
Chromium, Hexavalent		0.0030 J	0.010	0.0026	mg/l	SW846 7196A
Hardness, Total as CaCO3		980	5.0	3.9	mg/l	SM2340 C-11/21
Solids, Total Dissolved		2100	10	6.0	mg/l	SM2540 C-15/20
Turbidity		0.14 J	0.30	0.034	NTU	EPA 180.1
JE36565-2A	**EFFLUENT**					
Perfluoroheptanoic acid		0.0022	0.0020	0.00050	ug/l	EPA 1633
Perfluorooctanoic acid		0.0036	0.0020	0.00075	ug/l	EPA 1633
Perfluorononanoic acid		0.0020	0.0020	0.00040	ug/l	EPA 1633

Summary of Hits

Job Number: JE36565
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 06/17/26

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE36565-3	**MID**					
Perfluoroheptanoic acid		0.0183	0.0020	0.00050	ug/l	EPA 1633
Perfluorooctanoic acid		0.0408	0.0020	0.00075	ug/l	EPA 1633
Perfluorononanoic acid		0.0356	0.0020	0.00040	ug/l	EPA 1633
Perfluorodecanoic acid		0.0156	0.0020	0.00062	ug/l	EPA 1633
Perfluorohexanesulfonic acid		0.0019 J	0.0020	0.0011	ug/l	EPA 1633
Perfluorooctanesulfonic acid		0.0117	0.0020	0.00043	ug/l	EPA 1633
JE36565-4	**TRIP BLANK**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE36565-1
Matrix: AQ - Influent
Method: EPA 624.1
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 06/17/26
Date Received: 06/17/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2V126990.D	1	07/01/26 13:58	NW	n/a	n/a	V2V4708
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	4.3	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	20.8	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.6	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	175	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	56.3	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	5.2	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%		80-128%
2037-26-5	Toluene-D8 (SUR)	98%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	106%		79-117%
1868-53-7	Dibromofluoromethane (S)	98%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE36565-1	**Date Sampled:**	06/17/26
Matrix:	AQ - Influent	**Date Received:**	06/17/26
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D206628.D	1	06/19/26 17:48	ED	n/a	n/a	V3D8505
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.085	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		50-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE36565-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 06/17/26
Date Received: 06/17/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Arsenic	0.25 U	1.0	0.25	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Cadmium	0.099 U	0.50	0.099	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Calcium	234000	10000	250	ug/l	2	06/19/26	06/22/26	LM	EPA 200.7 [4]	EPA 200.7 [6]
Chromium	1.1 J	4.0	0.33	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Copper	1.5 J	4.0	0.65	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Iron	30 U	100	30	ug/l	1	06/19/26	06/19/26	LM	EPA 200.7 [3]	EPA 200.7 [6]
Lead	0.14 U	0.50	0.14	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Magnesium	87100	5000	200	ug/l	1	06/19/26	06/19/26	LM	EPA 200.7 [3]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/18/26	06/18/26	MK	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	0.26 U	4.0	0.26	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Selenium	5.5 U	10	5.5	ug/l	1	06/19/26	06/19/26	LM	EPA 200.7 [3]	EPA 200.7 [6]
Silver	0.10 U	2.0	0.10	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Zinc	3.7 U	10	3.7	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]

(1) Instrument QC Batch: MA61062
(2) Instrument QC Batch: MA61074
(3) Instrument QC Batch: MA61078
(4) Instrument QC Batch: MA61091
(5) Prep QC Batch: MP62826
(6) Prep QC Batch: MP62847
(7) Prep QC Batch: MP62849

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: INFLUENT
Lab Sample ID: JE36565-1
Matrix: AQ - Influent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 06/17/26
Date Received: 06/17/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	773	8.0	3.3	mg/l	4	06/23/26 14:36	JD	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0026 U	0.010	0.0026	mg/l	1	06/18/26 08:57	CP	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	06/20/26 02:50	NV	SW846 6010/7196A M
Cyanide	0.0041 J	0.010	0.0041	mg/l	1	06/23/26 20:11	JD	EPA 335.4/LACHAT
Hardness, Total as CaCO3	980	5.0	3.9	mg/l	1	06/25/26 14:25	MS	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	06/24/26 21:21	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	06/29/26 17:30	SS	EPA 420.4/LACHAT
Solids, Total Dissolved	2000	10	6.0	mg/l	1	06/22/26 18:00	JL	SM2540 C-15/20
Solids, Total Suspended	1.0 J	4.0	0.90	mg/l	1	06/23/26 18:00	JL	SM2540 D-15/20
Turbidity	0.23 J	0.30	0.034	NTU	1	06/18/26 12:37	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	INFLUENT		
Lab Sample ID:	JE36565-1A	**Date Sampled:**	06/17/26
Matrix:	AQ - Influent	**Date Received:**	06/17/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q13960.D	1	06/24/26 23:13	VL	06/23/26 16:00	OP74715	T4Q314
Run #2							

	Initial Volume	Final Volume
Run #1	492 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0432	0.0020	0.00051	ug/l	
335-67-1	Perfluorooctanoic acid	0.103	0.0020	0.00076	ug/l	
375-95-1	Perfluorononanoic acid	0.0822	0.0020	0.00041	ug/l	
335-76-2	Perfluorodecanoic acid	0.0336	0.0020	0.00063	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0037	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0265	0.0020	0.00044	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	101%		40-130%
	13C8-PFOA	95%		40-130%
	13C9-PFNA	97%		40-130%
	13C6-PFDA	98%		40-130%
	13C3-PFHxS	95%		40-130%
	13C8-PFOS	93%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE36565-2
Matrix: AQ - Effluent
Method: EPA 624.1
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 06/17/26
Date Received: 06/17/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2V126823.D	1	06/26/26 12:35	NW	n/a	n/a	V2V4703
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	98%		80-128%
2037-26-5	Toluene-D8 (SUR)	98%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	110%		79-117%
1868-53-7	Dibromofluoromethane (S)	96%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE36565-2	**Date Sampled:**	06/17/26
Matrix:	AQ - Effluent	**Date Received:**	06/17/26
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3D206633.D	1	06/19/26 20:48	ED	n/a	n/a	V3D8505
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.40	0.30	0.085	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		50-150%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE36565-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 06/17/26
Date Received: 06/17/26
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	0.88 U	2.0	0.88	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Arsenic	0.25 U	1.0	0.25	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Cadmium	0.099 U	0.50	0.099	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Calcium	238000	10000	250	ug/l	2	06/19/26	06/23/26	LM	EPA 200.7 [4]	EPA 200.7 [6]
Chromium	0.99 J	4.0	0.33	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Copper	0.65 U	4.0	0.65	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Iron	30 U	100	30	ug/l	1	06/19/26	06/19/26	LM	EPA 200.7 [3]	EPA 200.7 [6]
Lead	0.14 U	0.50	0.14	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Magnesium	84400	5000	200	ug/l	1	06/19/26	06/19/26	LM	EPA 200.7 [3]	EPA 200.7 [6]
Mercury	0.092 U	0.20	0.092	ug/l	1	06/18/26	06/18/26	MK	EPA 245.1 [1]	EPA 245.1 [5]
Nickel	0.26 U	4.0	0.26	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Selenium	5.5 U	10	5.5	ug/l	1	06/19/26	06/19/26	LM	EPA 200.7 [3]	EPA 200.7 [6]
Silver	0.10 U	2.0	0.10	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]
Zinc	3.7 U	10	3.7	ug/l	1	06/19/26	06/20/26	NV	EPA 200.8 [2]	EPA 200.8 [7]

(1) Instrument QC Batch: MA61062
(2) Instrument QC Batch: MA61074
(3) Instrument QC Batch: MA61078
(4) Instrument QC Batch: MA61091
(5) Prep QC Batch: MP62826
(6) Prep QC Batch: MP62847
(7) Prep QC Batch: MP62849

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: EFFLUENT
Lab Sample ID: JE36565-2
Matrix: AQ - Effluent
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 06/17/26
Date Received: 06/17/26
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Chloride	791	8.0	3.3	mg/l	4	06/23/26 14:49	JD	EPA 300/SW846 9056A
Chromium, Hexavalent	0.0030 J	0.010	0.0026	mg/l	1	06/18/26 08:58	CP	SW846 7196A
Chromium, Trivalent [a]	0.0029 U	0.014	0.0029	mg/l	1	06/20/26 02:54	NV	SW846 6010/7196A M
Cyanide	0.0041 U	0.010	0.0041	mg/l	1	06/23/26 20:12	JD	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbons	0.86 U	5.0	0.86	mg/l	1	06/30/26 18:00	SS	EPA 1664A
Hardness, Total as CaCO3	980	5.0	3.9	mg/l	1	06/25/26 14:25	MS	SM2340 C-11/21
Nitrogen, Ammonia	0.089 U	0.20	0.089	mg/l	1	06/24/26 21:22	JD	SM4500NH3 H-11/21LAC
Phenols	0.053 U	0.20	0.053	mg/l	1	06/29/26 17:31	SS	EPA 420.4/LACHAT
Solids, Total Dissolved	2100	10	6.0	mg/l	1	06/22/26 18:00	JL	SM2540 C-15/20
Solids, Total Suspended	0.90 U	4.0	0.90	mg/l	1	06/23/26 18:00	JL	SM2540 D-15/20
Turbidity	0.14 J	0.30	0.034	NTU	1	06/18/26 12:37	DB	EPA 180.1

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EFFLUENT		
Lab Sample ID:	JE36565-2A	**Date Sampled:**	06/17/26
Matrix:	AQ - Effluent	**Date Received:**	06/17/26
Method:	EPA 1633 EPA 1633	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q13961.D	1	06/24/26 23:26	VL	06/23/26 16:00	OP74715	T4Q314
Run #2							

	Initial Volume	Final Volume
Run #1	502 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0022	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.0036	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	0.0020	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	95%		40-130%
	13C8-PFOA	93%		40-130%
	13C9-PFNA	92%		40-130%
	13C6-PFDA	93%		40-130%
	13C3-PFHxS	90%		40-130%
	13C8-PFOS	84%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MID
Lab Sample ID: JE36565-3
Matrix: AQ - Water
Method: EPA 1633 EPA 1633
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Date Sampled: 06/17/26
Date Received: 06/17/26
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Q13959.D	1	06/24/26 23:01	VL	06/23/26 16:00	OP74715	T4Q314
Run #2							

	Initial Volume	Final Volume
Run #1	498 ml	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
PERFLUOROALKYL CARBOXYLIC ACIDS						
375-85-9	Perfluoroheptanoic acid	0.0183	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	0.0408	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	0.0356	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	0.0156	0.0020	0.00062	ug/l	
PERFLUOROALKYL SULFONIC ACIDS						
355-46-4	Perfluorohexanesulfonic acid	0.0019	0.0020	0.0011	ug/l	J
1763-23-1	Perfluorooctanesulfonic acid	0.0117	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries	Run# 1	Run# 2	Limits
	13C4-PFHpA	100%		40-130%
	13C8-PFOA	98%		40-130%
	13C9-PFNA	95%		40-130%
	13C6-PFDA	94%		40-130%
	13C3-PFHxS	95%		40-130%
	13C8-PFOS	93%		40-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JE36565-4	**Date Sampled:**	06/17/26
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/17/26
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2V126988.D	1	07/01/26 13:28	NW	n/a	n/a	V2V4708
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	102%		80-128%
2037-26-5	Toluene-D8 (SUR)	95%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	107%		79-117%
1868-53-7	Dibromofluoromethane (S)	97%		84-121%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits

Parameter Certification Exceptions

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Chromium, Trivalent		**SW846 6010/7196A M**	AQ	SGS is not certified for this parameter.[a]

(a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

WW
TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

PRGM-TP-051926 73 E

EHSA-QAC-0023-04-FORM-Standard COC

FED-EX Tracking #: | Bottle Order Control #:
SGS Quote #: | SGS Job #: JE36565

Client / Reporting Information

Company Name: Tetra Tech Inc.
Street Address: 100 Nickerson Road
City State Zip: Marlborough, MA 01752
Project Contact E-mail: Cullen Bryant / cullen.bryant@tetratech.com
Phone #: 857.272.3511
Sampler(s) Name(s) Phone #:

Project Information

Project Name: HVEC - Burlington 3VDG
Street: 3 Van DeGraff Dr
City State: Burlington MA
Project #: 117-367085-25001
Client Purchase Order #:
Project Manager: Cullen Bryant

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of bottles: HCl	NaOH+ASC	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	AMN	CHL, XCR, TURB, TDS, CR3R	PN	TSS	V624SL1	V8260SIMDIOX	CN	AGMS,ASMS,CA,CDMS,CRMS,CUMS,FE, HG,HRD,MG,NIMS,PBMS,SBMS,SE,ZNMS	PHC1664	LCID1633MA6	LAB USE ONLY
1	INFLUENT		6/17/26	11:30	CB	G	N	WW	18	4	1	1	2	9					1	2	1	2	4	3	1	1		3	
2	EFFLUENT		6-17-26	11:50	CB	G	N	WW	20	6	1	1	2	9					1	2	1	2	4	3	1	1	2	3	
3	MID		6-17-26	11:00	CB	G	N	WW	3					3														3	
4	TRIP BLANK					G		DI	2	2													2						

Initial Assessment BAS
Label Verification

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [x] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [x] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

SGS Service Center
Northborough, MA

SGS Courier

1210
6/17

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1	Cullen Bryant	6-17-26 12:10	1
2			2
3			3
4			4
5			5

Relinquished by: 2 — Date / Time: 6-17-26 1755 — Received By: 2

Custody Seal # ☐ Intact ☐ Therm ID: ☐ On Ice Cooler Temp. °C: 3.3°C, 0.7°C

JE36565: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE36565 **Client:** TETRA TECH **Project:** HVEC - MONTHLY RGP , 3 VAN DE GRA

Date / Time Received: 6/17/2026 10:45:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.3); Cooler 2: (0.7);

Cooler Temps (Corrected) °C: Cooler 1: (2.3); Cooler 2: (-0.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup	WSC-CAM	Exhibit VII A
	July 1, 2010	Revision No. 1
	Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

MassDEP Analytical Protocol Certification Form

Laboratory Name:	SGS North America Inc. - Dayton	Project #:	JE36565
Project Location:	HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA	MADEP RTN	None

This form provides certifications for the following data set: list Laboratory Sample ID Numbers(s)

JE36565-1,JE36565-1A,JE36565-2,JE36565-2A,JE36565-3,JE36565-4

Matrices: Groundwater/Surface Water ( ) Soil/Sediment ( ) Drinking Water ( ) Air ( ) Other (X)

CAM Protocol (check all that apply below):

8260 VOC (X) CAM IIA	7470/7471 Hg ( ) CAM III B	MassDEP VPH ( ) CAM IV A	8081 Pesticides ( ) CAM V B	7196 Hex Cr (X) CAM VI B	Mass DEP APH ( ) CAM IX A
8270 SVOC ( ) CAM II B	7010 Metals ( ) CAM III C	MassDEP EPH ( ) CAM IV B	8151 Herbicides ( ) CAM V C	8330 Explosives ( ) CAM VIII A	TO-15 VOC ( ) CAM IX B
6010 Metals (X) CAM III A	6020 Metals ( ) CAM III D	8082 PCB ( ) CAM V A	9014 Total Cyanide/PAC ( ) CAM VI A	6860 Perchlorate ( ) CAM VIII B	

Affirmative Responses to Questions A Through F are required for "Presumptive Certainty status

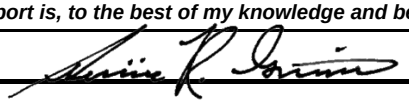
A	Were all samples received in a condition consistent with those described on the Chain-of Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No	
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☑ Yes	☐ No	
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No	
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☑ Yes	☐ No	
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No	
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No	
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☑ Yes	☐ No	

Responses to questions G, H, and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols	☑ Yes	☐ No [1]	
	Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data useability and representativeness requirements described in 310 CMR 40.1056(2)(k) and WSC-07-350.			
H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No [1]	
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No [1]	

[1] ***All Negative responses must be addressed in an attached Environmental Laboratory case narrative.***

I the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** **Technical Director**

Printed Name: Olga Azarian **Date:** **14-Jul-26**

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE36565

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE36565-1	Collected: 17-JUN-26 11:30 By: CB		Received: 17-JUN-26 By: JR			
INFLUENT						
JE36565-1	SW846 7196A	18-JUN-26 08:57	CP			XCR
JE36565-1	EPA 180.1	18-JUN-26 12:37	DB			TURB
JE36565-1	EPA 245.1	18-JUN-26 13:45	MK	18-JUN-26	MK	HG
JE36565-1	SW846 8260D BY SIM	19-JUN-26 17:48	ED			V8260SIMDIOX
JE36565-1	EPA 200.7	19-JUN-26 19:39	LM	19-JUN-26	MG	FE,MG,SE
JE36565-1	EPA 200.8	20-JUN-26 02:50	NV	19-JUN-26	SK	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE36565-1	SW846 6010/7196A M	20-JUN-26 02:50	NV			CR3R
JE36565-1	SM2540 C-15/20	22-JUN-26 18:00	JL			TDS
JE36565-1	EPA 200.7	22-JUN-26 23:56	LM	19-JUN-26	MG	CA
JE36565-1	EPA 300/SW846 9056A	23-JUN-26 14:36	JD	22-JUN-26	SS	CHL
JE36565-1	SM2540 D-15/20	23-JUN-26 18:00	JL			TSS
JE36565-1	EPA 335.4/LACHAT	23-JUN-26 20:11	JD	22-JUN-26	KG	CN
JE36565-1	SM4500NH3 H-11/21LACH	24-JUN-26 21:21	JD	24-JUN-26	JD	AMN
JE36565-1	SM2340 C-11/21	25-JUN-26 14:25	MS			HRD
JE36565-1	EPA 420.4/LACHAT	29-JUN-26 17:30	SS	23-JUN-26	KG	PN
JE36565-1	EPA 624.1	01-JUL-26 13:58	NW			V624SL1
JE36565-2	Collected: 17-JUN-26 11:50 By: CB		Received: 17-JUN-26 By: JR			
EFFLUENT						
JE36565-2	SW846 7196A	18-JUN-26 08:58	CP			XCR
JE36565-2	EPA 180.1	18-JUN-26 12:37	DB			TURB
JE36565-2	EPA 245.1	18-JUN-26 13:48	MK	18-JUN-26	MK	HG
JE36565-2	SW846 8260D BY SIM	19-JUN-26 20:48	ED			V8260SIMDIOX
JE36565-2	EPA 200.7	19-JUN-26 21:38	LM	19-JUN-26	MG	FE,MG,SE
JE36565-2	EPA 200.8	20-JUN-26 02:54	NV	19-JUN-26	SK	AGMS,ASMS,CDMS,CRMS,CUMS, NIMS,PBMS,SBMS,ZNMS
JE36565-2	SW846 6010/7196A M	20-JUN-26 02:54	NV			CR3R
JE36565-2	SM2540 C-15/20	22-JUN-26 18:00	JL			TDS
JE36565-2	EPA 200.7	23-JUN-26 00:32	LM	19-JUN-26	MG	CA
JE36565-2	EPA 300/SW846 9056A	23-JUN-26 14:49	JD	22-JUN-26	SS	CHL
JE36565-2	SM2540 D-15/20	23-JUN-26 18:00	JL			TSS
JE36565-2	EPA 335.4/LACHAT	23-JUN-26 20:12	JD	22-JUN-26	KG	CN
JE36565-2	SM4500NH3 H-11/21LACH	24-JUN-26 21:22	JD	24-JUN-26	JD	AMN
JE36565-2	SM2340 C-11/21	25-JUN-26 14:25	MS			HRD
JE36565-2	EPA 624.1	26-JUN-26 12:35	NW			V624SL1

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JE36565

HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Project No: 117-367085-25001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE36565-2	EPA 420.4/LACHAT	29-JUN-26 17:31	SS	23-JUN-26	KG	PN
JE36565-2	EPA 1664A	30-JUN-26 18:00	SS	30-JUN-26	SS	PHC1664
JE36565-3 MID	Collected: 17-JUN-26 11:00 By: CB			Received: 17-JUN-26 By: JR		
JE36565-3	EPA 1633	24-JUN-26 23:01	VL	23-JUN-26	IT	LCID1633MA6
JE36565-4 TRIP BLANK	Collected: 17-JUN-26 11:50 By: CB			Received: 17-JUN-26 By: JR		
JE36565-4	EPA 624.1	01-JUL-26 13:28	NW			V624SL1
JE36565-1A INFLUENT	Collected: 17-JUN-26 11:30 By: CB			Received: 17-JUN-26 By: JR		
JE36565-1A	EPA 1633	24-JUN-26 23:13	VL	23-JUN-26	IT	LCID1633MA6
JE36565-2A EFFLUENT	Collected: 17-JUN-26 11:50 By: CB			Received: 17-JUN-26 By: JR		
JE36565-2A	EPA 1633	24-JUN-26 23:26	VL	23-JUN-26	IT	LCID1633MA6

QC Evaluation: MA MCP Limits

Job Number: JE36565
Account: Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA
Collected: 06/17/26

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No MA MCP Limits found for methods in this job.

* Sample used for QC is not from job JE36565

MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2V4703-MB	2V126822.D	1	06/26/26	NW	n/a	n/a	V2V4703

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE36565-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	100%	80-128%
2037-26-5	Toluene-D8 (SUR)	97%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	108%	79-117%
1868-53-7	Dibromofluoromethane (S)	98%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2V4708-MB	2V126984.D	1	07/01/26	NW	n/a	n/a	V2V4708

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE36565-1, JE36565-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	3.0	ug/l	
71-43-2	Benzene	ND	1.0	0.71	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.76	ug/l	
95-47-6	o-Xylene	ND	1.0	0.92	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	101%	80-128%
2037-26-5	Toluene-D8 (SUR)	95%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	107%	79-117%
1868-53-7	Dibromofluoromethane (S)	97%	84-121%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D8505-MB	3D206625.D	1	06/19/26	ED	n/a	n/a	V3D8505

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

JE36565-1, JE36565-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.30	0.085	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	91%	50-150%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2V4703-BS	2V126819.D	1	06/26/26	NW	n/a	n/a	V2V4703
V2V4703-BSD	2V126821.D	1	06/26/26	NW	n/a	n/a	V2V4703

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE36565-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	81.3	102	83.3	104	2	26-198/39
71-43-2	Benzene	20	19.5	98	19.5	98	0	65-135/11
56-23-5	Carbon tetrachloride	20	14.1	71	14.1	71	0	70-130/13
95-50-1	1,2-Dichlorobenzene	20	19.2	96	19.5	98	2	65-135/12
541-73-1	1,3-Dichlorobenzene	20	19.2	96	19.4	97	1	70-130/12
106-46-7	1,4-Dichlorobenzene	20	18.8	94	19.2	96	2	65-135/12
75-34-3	1,1-Dichloroethane	20	19.2	96	19.5	98	2	70-130/12
107-06-2	1,2-Dichloroethane	20	19.8	99	19.3	97	3	70-130/11
75-35-4	1,1-Dichloroethene	20	21.9	110	22.4	112	2	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	19.5	98	19.6	98	1	72-116/12
100-41-4	Ethylbenzene	20	19.2	96	19.5	98	2	60-140/11
75-09-2	Methylene chloride	20	19.7	99	19.5	98	1	60-140/14
127-18-4	Tetrachloroethene	20	17.4	87	17.6	88	1	70-130/18
108-88-3	Toluene	20	19.7	99	20.0	100	2	70-130/13
71-55-6	1,1,1-Trichloroethane	20	16.4	82	16.5	83	1	70-130/12
79-00-5	1,1,2-Trichloroethane	20	16.5	83	16.5	83	0	70-130/14
79-01-6	Trichloroethene	20	15.9	80	15.9	80	0	65-135/13
75-01-4	Vinyl chloride	20	14.8	74	15.0	75	1	50-150/14
	m,p-Xylene	40	38.3	96	39.2	98	2	78-115/11
95-47-6	o-Xylene	20	18.5	93	18.9	95	2	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	99%	97%	80-128%
2037-26-5	Toluene-D8 (SUR)	97%	99%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	103%	103%	79-117%
1868-53-7	Dibromofluoromethane (S)	96%	94%	84-121%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2V4708-BS	2V126980A.D	1	07/01/26	NW	n/a	n/a	V2V4708
V2V4708-BSD	2V126982.D	1	07/01/26	NW	n/a	n/a	V2V4708

The QC reported here applies to the following samples: **Method:** EPA 624.1

JE36565-1, JE36565-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	80.5	101	84.4	106	5	26-198/39
71-43-2	Benzene	20	19.8	99	20.5	103	3	65-135/11
56-23-5	Carbon tetrachloride	20	14.1	71	14.6	73	3	70-130/13
95-50-1	1,2-Dichlorobenzene	20	20.1	101	21.0	105	4	65-135/12
541-73-1	1,3-Dichlorobenzene	20	20.2	101	21.0	105	4	70-130/12
106-46-7	1,4-Dichlorobenzene	20	20.1	101	20.4	102	1	65-135/12
75-34-3	1,1-Dichloroethane	20	19.7	99	19.9	100	1	70-130/12
107-06-2	1,2-Dichloroethane	20	19.5	98	20.2	101	4	70-130/11
75-35-4	1,1-Dichloroethene	20	21.7	109	22.0	110	1	50-150/16
156-59-2	cis-1,2-Dichloroethene	20	20.1	101	20.2	101	0	72-116/12
100-41-4	Ethylbenzene	20	19.9	100	20.5	103	3	60-140/11
75-09-2	Methylene chloride	20	19.9	100	20.0	100	1	60-140/14
127-18-4	Tetrachloroethene	20	18.4	92	19.1	96	4	70-130/18
108-88-3	Toluene	20	20.7	104	20.8	104	0	70-130/13
71-55-6	1,1,1-Trichloroethane	20	16.7	84	17.2	86	3	70-130/12
79-00-5	1,1,2-Trichloroethane	20	16.2	81	17.6	88	8	70-130/14
79-01-6	Trichloroethene	20	15.8	79	16.4	82	4	65-135/13
75-01-4	Vinyl chloride	20	12.5	63	12.7	64	2	50-150/14
	m,p-Xylene	40	39.7	99	40.4	101	2	78-115/11
95-47-6	o-Xylene	20	19.2	96	19.5	98	2	78-114/12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	94%	95%	80-128%
2037-26-5	Toluene-D8 (SUR)	97%	97%	82-113%
460-00-4	4-Bromofluorobenzene (SUR)	106%	105%	79-117%
1868-53-7	Dibromofluoromethane (S)	95%	94%	84-121%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3D8505-BS	3D206622.D	1	06/19/26	ED	n/a	n/a	V3D8505
V3D8505-BSD	3D206623.D	1	06/19/26	ED	n/a	n/a	V3D8505

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

JE36565-1, JE36565-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	20	17.6	88	18.5	93	5	58-137/27

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	94%	101%	50-150%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V2V4703-CC4682	**Injection Date:**	06/26/26
Lab File ID:	2V126819A.D	**Injection Time:**	10:46
Instrument ID:	GCMS2V	**Method:**	EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	245704	2.85	644238	3.90	930056	4.40	450260	8.18	851227	6.47
Upper Limit [a]	491408	3.35	1288476	4.40	1860112	4.90	900520	8.68	1702454	6.97
Lower Limit [b]	122852	2.35	322119	3.40	465028	3.90	225130	7.68	425614	5.97

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2V4703-BS	245704	2.85	644238	3.90	930056	4.40	450260	8.18	851227	6.47
V2V4703-BSD	243093	2.85	639871	3.91	926203	4.41	439872	8.18	832709	6.47
V2V4703-MB	217323	2.85	677792	3.91	876892	4.41	432143	8.18	858001	6.47
JE36565-2	212920	2.85	670304	3.90	873107	4.40	419032	8.18	849773	6.48
JE37017-1	206578	2.85	620451	3.91	821972	4.41	395900	8.18	792730	6.47
ZZZZZZ	185225	2.85	586121	3.90	757865	4.40	378550	8.18	736630	6.47
ZZZZZZ	214473	2.85	601570	3.90	784850	4.41	395535	8.18	769746	6.47
ZZZZZZ	206816	2.85	606837	3.91	797334	4.41	396043	8.18	778709	6.48
ZZZZZZ	204594	2.85	605652	3.90	809229	4.40	403625	8.18	801584	6.47
ZZZZZZ	217374	2.85	595242	3.91	786306	4.41	394543	8.18	766831	6.47
JE37017-1MS	257243	2.85	636428	3.91	948626	4.41	420868	8.18	831347	6.47
JE37017-1MSD	265209	2.85	647650	3.90	975018	4.40	430434	8.18	845588	6.47

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V2V4708-CC4682	**Injection Date:**	07/01/26
Lab File ID:	2V126980.D	**Injection Time:**	10:54
Instrument ID:	GCMS2V	**Method:**	EPA 624.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	255557	2.85	718355	3.91	1039944	4.41	487832	8.18	942925	6.47
Upper Limit [a]	511114	3.35	1436710	4.41	2079888	4.91	975664	8.68	1885850	6.97
Lower Limit [b]	127779	2.35	359178	3.41	519972	3.91	243916	7.68	471463	5.97

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2V4708-BS	255557	2.85	718355	3.91	1039944	4.41	487832	8.18	942925	6.47
V2V4708-BSD	270437	2.85	710638	3.90	1035894	4.41	481577	8.18	928694	6.47
V2V4708-MB	264355	2.85	712975	3.91	923196	4.41	478937	8.18	943246	6.47
ZZZZZZ	259159	2.85	699587	3.91	911269	4.41	476633	8.18	921773	6.47
JE36565-4	234553	2.85	683130	3.91	897096	4.41	453869	8.18	898328	6.47
JE36565-1	231645	2.85	687811	3.90	966173	4.40	452454	8.18	885571	6.47
ZZZZZZ	231374	2.85	656843	3.91	969651	4.41	485103	8.18	907161	6.47
ZZZZZZ	219656	2.85	675566	3.90	869426	4.41	486788	8.18	902426	6.47
ZZZZZZ	222250	2.85	668471	3.91	887044	4.41	462603	8.18	911289	6.47
JE37218-2A	249241	2.85	669925	3.90	878769	4.40	480806	8.18	915767	6.47
ZZZZZZ	462259	2.87	753756	3.90	1269687	4.41	532652	8.18	1004402	6.47
ZZZZZZ	273770	2.85	700654	3.91	915551	4.41	484088	8.18	933085	6.47
ZZZZZZ	254331	2.85	666416	3.90	869138	4.40	475357	8.18	900699	6.47
ZZZZZZ	248360	2.85	689686	3.91	914846	4.41	493164	8.18	920951	6.47

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = 1,4-Dichlorobenzene-d4
IS 5 = Chlorobenzene-D5

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	V3D8505-CC8448	**Injection Date:**	06/19/26
Lab File ID:	3D206621.D	**Injection Time:**	13:32
Instrument ID:	GCMS3D	**Method:**	SW846 8260D BY SIM

	IS 1 AREA	RT
Check Std	12598	4.54
Upper Limit [a]	25196	5.04
Lower Limit [b]	6299	4.04

Lab Sample ID	IS 1 AREA	RT
V3D8505-BS	13423	4.54
V3D8505-BSD	12354	4.54
V3D8505-MB	13870	4.55
JE36519-12	13426	4.55
JE36519-13	16987	4.54
JE36565-1	13174	4.55
JE36519-12MS	16179	4.54
JE36519-13DUP	18346	4.54
ZZZZZZ	13111	4.54
JE36565-2	13538	4.54

IS 1 = 1,4-Dioxane-D8

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 624.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JE36565-1	2V126990.D	98	98	106	98
JE36565-2	2V126823.D	98	98	110	96
JE36565-4	2V126988.D	102	95	107	97
V2V4703-BS	2V126819.D	99	97	103	96
V2V4703-BSD	2V126821.D	97	99	103	94
V2V4703-MB	2V126822.D	100	97	108	98
V2V4708-BS	2V126980A.D	94	97	106	95
V2V4708-BSD	2V126982.D	95	97	105	94
V2V4708-MB	2V126984.D	101	95	107	97

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4 (SUR)	80-128%
S2 = Toluene-D8 (SUR)	82-113%
S3 = 4-Bromofluorobenzene (SUR)	79-117%
S4 = Dibromofluoromethane (S)	84-121%

Surrogate Recovery Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: SW846 8260D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE36565-1	3D206628.D	103
JE36565-2	3D206633.D	96
V3D8505-BS	3D206622.D	94
V3D8505-BSD	3D206623.D	101
V3D8505-MB	3D206625.D	91

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	50-150%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Injection Standard Area Summaries
- Isotope Dilution Standard Recovery Summaries

Instrument Blank

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T4Q314-IBLK	4Q13947.D	1	06/24/26	VL	n/a	n/a	T4Q314

The QC reported here applies to the following samples: **Method:** EPA 1633

JE36565-3, JE36565-1A, JE36565-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	104%	5-130%
	13C5-PFPeA	101%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	104%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	103%	40-130%
	13C6-PFDA	107%	40-130%
	13C7-PFUnDA	108%	30-130%
	13C2-PFDoDA	106%	10-130%
	13C2-PFTeDA	107%	10-130%
	13C3-PFBS	104%	40-135%
	13C3-PFHxS	99%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	109%	40-130%
	d3-MeFOSA	100%	10-130%
	d5-EtFOSA	105%	10-130%
	d3-MeFOSAA	105%	40-170%
	d5-EtFOSAA	104%	25-135%
	d7-MeFOSE	109%	10-130%
	d9-EtFOSE	108%	10-130%
	13C2-4:2FTS	114%	40-200%
	13C2-6:2FTS	120%	40-200%
	13C2-8:2FTS	117%	40-300%
	13C3-HFPO-DA	102%	40-130%

Instrument Blank

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T4Q314-ICCB	4Q13951.D	1	06/24/26	VL	n/a	n/a	T4Q314

The QC reported here applies to the following samples: **Method:** EPA 1633

JE36565-3, JE36565-1A, JE36565-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	103%	5-130%
	13C5-PFPeA	104%	40-130%
	13C5-PFHxA	102%	40-130%
	13C4-PFHpA	104%	40-130%
	13C8-PFOA	102%	40-130%
	13C9-PFNA	100%	40-130%
	13C6-PFDA	107%	40-130%
	13C7-PFUnDA	108%	30-130%
	13C2-PFDoDA	104%	10-130%
	13C2-PFTeDA	113%	10-130%
	13C3-PFBS	101%	40-135%
	13C3-PFHxS	101%	40-130%
	13C8-PFOS	101%	40-130%
	13C8-FOSA	112%	40-130%
	d3-MeFOSA	100%	10-130%
	d5-EtFOSA	102%	10-130%
	d3-MeFOSAA	104%	40-170%
	d5-EtFOSAA	103%	25-135%
	d7-MeFOSE	114%	10-130%
	d9-EtFOSE	110%	10-130%
	13C2-4:2FTS	117%	40-200%
	13C2-6:2FTS	124%	40-200%
	13C2-8:2FTS	122%	40-300%
	13C3-HFPO-DA	103%	40-130%

Method Blank Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74715-MB	4Q13952.D	1	06/24/26	VL	06/23/26	OP74715	T4Q314

The QC reported here applies to the following samples: **Method:** EPA 1633

JE36565-3, JE36565-1A, JE36565-2A

CAS No.	Compound	Result	RL	MDL	Units	Q
375-85-9	Perfluoroheptanoic acid	ND	0.0020	0.00050	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.0020	0.00075	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.0020	0.00040	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.0020	0.00062	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.0020	0.0011	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.0020	0.00043	ug/l	

CAS No.	ID Standard Recoveries		Limits
	13C4-PFBA	101%	5-130%
	13C5-PFPeA	103%	40-130%
	13C5-PFHxA	101%	40-130%
	13C4-PFHpA	99%	40-130%
	13C8-PFOA	96%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	98%	40-130%
	13C7-PFUnDA	102%	30-130%
	13C2-PFDoDA	96%	10-130%
	13C2-PFTeDA	98%	10-130%
	13C3-PFBS	107%	40-135%
	13C3-PFHxS	105%	40-130%
	13C8-PFOS	91%	40-130%
	13C8-FOSA	91%	40-130%
	d3-MeFOSA	77%	10-130%
	d5-EtFOSA	81%	10-130%
	d3-MeFOSAA	92%	40-170%
	d5-EtFOSAA	90%	25-135%
	d7-MeFOSE	84%	10-130%
	d9-EtFOSE	86%	10-130%
	13C2-4:2FTS	120%	40-200%
	13C2-6:2FTS	124%	40-200%
	13C2-8:2FTS	115%	40-300%
	13C3-HFPO-DA	100%	40-130%

Blank Spike Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74715-LLBS	4Q13955.D	1	06/24/26	VL	06/23/26	OP74715	T4Q314

The QC reported here applies to the following samples: **Method:** EPA 1633

JE36565-3, JE36565-1A, JE36565-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.004	0.0041	103	70-150
335-67-1	Perfluorooctanoic acid	0.004	0.0037	93	70-150
375-95-1	Perfluorononanoic acid	0.004	0.0038	95	70-150
335-76-2	Perfluorodecanoic acid	0.004	0.0038	95	70-140
355-46-4	Perfluorohexanesulfonic acid	0.00366	0.0040	109	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.00371	0.0037	100	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	105%	5-130%
	13C5-PFPeA	107%	40-130%
	13C5-PFHxA	104%	40-130%
	13C4-PFHpA	103%	40-130%
	13C8-PFOA	99%	40-130%
	13C9-PFNA	101%	40-130%
	13C6-PFDA	97%	40-130%
	13C7-PFUnDA	96%	30-130%
	13C2-PFDoDA	91%	10-130%
	13C2-PFTeDA	96%	10-130%
	13C3-PFBS	104%	40-135%
	13C3-PFHxS	101%	40-130%
	13C8-PFOS	93%	40-130%
	13C8-FOSA	92%	40-130%
	d3-MeFOSA	80%	10-130%
	d5-EtFOSA	83%	10-130%
	d3-MeFOSAA	98%	40-170%
	d5-EtFOSAA	93%	25-135%
	d7-MeFOSE	89%	10-130%
	d9-EtFOSE	91%	10-130%
	13C2-4:2FTS	121%	40-200%
	13C2-6:2FTS	123%	40-200%
	13C2-8:2FTS	115%	40-300%
	13C3-HFPO-DA	105%	40-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP74715-BS	4Q13956.D	1	06/24/26	VL	06/23/26	OP74715	T4Q314

The QC reported here applies to the following samples: **Method:** EPA 1633

JE36565-3, JE36565-1A, JE36565-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
375-85-9	Perfluoroheptanoic acid	0.025	0.0256	102	70-150
335-67-1	Perfluorooctanoic acid	0.025	0.0262	105	70-150
375-95-1	Perfluorononanoic acid	0.025	0.0249	100	70-150
335-76-2	Perfluorodecanoic acid	0.025	0.0255	102	70-140
355-46-4	Perfluorohexanesulfonic acid	0.0229	0.0236	103	65-145
1763-23-1	Perfluorooctanesulfonic acid	0.0232	0.0234	101	55-150

CAS No.	ID Standard Recoveries	BSP	Limits
	13C4-PFBA	98%	5-130%
	13C5-PFPeA	101%	40-130%
	13C5-PFHxA	98%	40-130%
	13C4-PFHpA	98%	40-130%
	13C8-PFOA	93%	40-130%
	13C9-PFNA	98%	40-130%
	13C6-PFDA	96%	40-130%
	13C7-PFUnDA	99%	30-130%
	13C2-PFDoDA	92%	10-130%
	13C2-PFTeDA	80%	10-130%
	13C3-PFBS	101%	40-135%
	13C3-PFHxS	97%	40-130%
	13C8-PFOS	88%	40-130%
	13C8-FOSA	68%	40-130%
	d3-MeFOSA	62%	10-130%
	d5-EtFOSA	65%	10-130%
	d3-MeFOSAA	90%	40-170%
	d5-EtFOSAA	88%	25-135%
	d7-MeFOSE	65%	10-130%
	d9-EtFOSE	74%	10-130%
	13C2-4:2FTS	103%	40-200%
	13C2-6:2FTS	107%	40-200%
	13C2-8:2FTS	105%	40-300%
	13C3-HFPO-DA	101%	40-130%

* = Outside of Control Limits.

Injection Standard Area Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std: T4Q314-CC314 **Injection Date:** 06/24/26
Lab File ID: 4Q13949.D **Injection Time:** 20:53
Instrument ID: GCMS4Q **Method:** EPA 1633

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Initial Cal [b]	343658	3.70	255055	6.45	501933	7.72	194799	8.21	181602	8.68
Check Std [c]	354191	3.70	257223	6.45	516813	7.72	198235	8.21	183700	8.68
Upper Limit [d]	687316	4.10	510110	6.85	1003866	8.12	389598	8.61	363204	9.08
Lower Limit [e]	171829	3.30	127528	6.05	250967	7.32	97400	7.81	90801	8.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	DF [a]
T4Q314-ICCB	293555	3.67	213508	6.45	423537	7.73	164993	8.21	144867	8.68	1
OP74715-MB	362251	3.71	265132	6.45	527216	7.73	194565	8.21	183350	8.68	1
ZZZZZZ	376226	3.70	269637	6.45	542312	7.72	205358	8.21	191452	8.68	1
ZZZZZZ	328072	3.70	239223	6.45	472443	7.72	176954	8.21	165686	8.68	1
OP74715-LLBS	338269	3.70	244103	6.45	493958	7.72	184356	8.21	174845	8.68	1
OP74715-BS	357385	3.70	258304	6.45	516843	7.73	191273	8.21	181563	8.68	1
OP74715-DUP	337960	3.70	264957	6.45	523317	7.73	196326	8.21	184449	8.68	1
ZZZZZZ	321484	3.70	236242	6.45	458887	7.73	176290	8.21	164579	8.68	1
JE36565-3	318625	3.70	234634	6.45	469602	7.72	179702	8.21	169402	8.68	1
JE36565-1A	304128	3.69	225687	6.45	451591	7.73	172795	8.21	161713	8.68	1
JE36565-2A	358983	3.71	264458	6.45	526734	7.73	200697	8.21	183198	8.68	1
JE36568-1	337885	3.72	261832	6.45	519519	7.73	195979	8.21	182206	8.68	1
ZZZZZZ	303198	3.71	241156	6.45	472941	7.73	177198	8.21	163518	8.68	1
ZZZZZZ	311855	3.70	236186	6.45	467488	7.73	178473	8.21	164144	8.68	1
ZZZZZZ	338541	3.71	251537	6.45	498122	7.73	186286	8.21	174248	8.68	1
T4Q314-ICCB	327154	3.70	238299	6.45	473966	7.72	181382	8.21	170717	8.68	1
ZZZZZZ	316978	3.70	239843	6.45	490365	7.73	189802	8.21	170014	8.68	1
ZZZZZZ	338999	3.70	260455	6.45	511720	7.72	195862	8.21	177075	8.68	1
ZZZZZZ	301929	3.71	239250	6.46	460512	7.73	182056	8.21	164628	8.68	1
ZZZZZZ	303171	3.70	235415	6.45	466844	7.73	184804	8.21	169184	8.68	1
ZZZZZZ	330829	3.72	252649	6.46	508711	7.73	189981	8.21	176075	8.70	1
ZZZZZZ	299629	3.69	234010	6.45	473712	7.73	171734	8.21	165523	8.68	1
ZZZZZZ	283740	3.70	225796	6.45	454752	7.72	172614	8.21	154021	8.68	1
ZZZZZZ	292908	3.70	232934	6.45	464714	7.73	173655	8.21	161637	8.68	1
ZZZZZZ	313898	3.71	240615	6.45	493053	7.73	187893	8.21	172294	8.68	1
ZZZZZZ	325781	3.70	243347	6.45	479491	7.73	193889	8.21	179416	8.68	1
T4Q314-ICCB	323283	3.69	243569	6.45	471753	7.73	183091	8.21	171995	8.68	1

IS 1 = 13C3-PFBA
IS 2 = 13C2-PFHxA
IS 3 = 13C4-PFOA
IS 4 = 13C5-PFNA
IS 5 = 13C2-PFDA

Injection Standard Area Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T4Q314-CC314	**Injection Date:**	06/24/26
Lab File ID:	4Q13949.D	**Injection Time:**	20:53
Instrument ID:	GCMS4Q	**Method:**	EPA 1633

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	DF [a]

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T4Q314-ICC314 4Q13942.D 06/24/26 19:24. Area is AVERAGE of initial cal points.
(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Injection Standard Area Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T4Q314-CC314	**Injection Date:**	06/24/26
Lab File ID:	4Q13949.D	**Injection Time:**	20:53
Instrument ID:	GCMS4Q	**Method:**	EPA 1633

	IS 6 AREA	RT	IS 7 AREA	RT
Initial Cal [b]	47198	8.02	81769	9.03
Check Std [c]	47560	8.02	84130	9.03
Upper Limit [d]	94396	8.42	163538	9.43
Lower Limit [e]	23599	7.62	40885	8.63

Lab Sample ID	IS 6 AREA	RT	IS 7 AREA	RT	DF [a]
T4Q314-ICCB	39347	8.03	70510	9.03	1
OP74715-MB	46065	8.03	88595	9.03	1
ZZZZZZ	48724	8.02	92147	9.03	1
ZZZZZZ	43297	8.02	78198	9.03	1
OP74715-LLBS	44323	8.02	79711	9.03	1
OP74715-BS	47558	8.03	87899	9.03	1
OP74715-DUP	48033	8.03	87227	9.03	1
ZZZZZZ	40708	8.03	76776	9.03	1
JE36565-3	43500	8.02	81334	9.03	1
JE36565-1A	43163	8.02	78338	9.03	1
JE36565-2A	49290	8.03	88175	9.03	1
JE36568-1	48242	8.03	90338	9.03	1
ZZZZZZ	43166	8.03	79289	9.03	1
ZZZZZZ	44335	8.03	80409	9.03	1
ZZZZZZ	46036	8.03	84355	9.03	1
T4Q314-ICCB	45509	8.03	80402	9.03	1
ZZZZZZ	44437	8.02	82573	9.03	1
ZZZZZZ	47643	8.03	85313	9.03	1
ZZZZZZ	44114	8.03	79156	9.03	1
ZZZZZZ	42920	8.03	80628	9.03	1
ZZZZZZ	46044	8.03	85531	9.03	1
ZZZZZZ	43099	8.03	77316	9.03	1
ZZZZZZ	42526	8.03	76820	9.03	1
ZZZZZZ	43367	8.03	79800	9.03	1
ZZZZZZ	45535	8.03	84906	9.03	1
ZZZZZZ	45924	8.03	85529	9.03	1
T4Q314-ICCB	44778	8.03	79715	9.03	1

IS 6 = 18O2-PFHXS
IS 7 = 13C4-PFOS

(a) Sample areas corrected for dilution where applicable.
(b) Initial Cal is: T4Q314-ICC314 4Q13942.D 06/24/26 19:24. Area is AVERAGE of initial cal points.

Injection Standard Area Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Check Std:	T4Q314-CC314	**Injection Date:**	06/24/26
Lab File ID:	4Q13949.D	**Injection Time:**	20:53
Instrument ID:	GCMS4Q	**Method:**	EPA 1633

Lab Sample ID	IS 6 AREA	IS 6 RT	IS 7 AREA	IS 7 RT	DF [a]

(c) Check Std Limit = -50 to + 100% of initial cal area.
(d) Upper Limit = + 100% of initial standard area; Retention time + 0.4 minutes of check standard.
(e) Lower Limit = -50% of initial standard area; Retention time -0.4 minutes of check standard.

Isotope Dilution Standard Recovery Summary

Job Number: JE36565
Account: TTMAL Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Method: EPA 1633 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE36565-3	4Q13959.D	100	98	95	94	95	93
JE36565-1A	4Q13960.D	101	95	97	98	95	93
JE36565-2A	4Q13961.D	95	93	92	93	90	84
OP74715-BS	4Q13956.D	98	93	98	96	97	88
OP74715-LLBS	4Q13955.D	103	99	101	97	101	93
OP74715-MB	4Q13952.D	99	96	101	98	105	91
T4Q314-IBLK	4Q13947.D	104	102	103	107	99	101
T4Q314-ICCB	4Q13951.D	104	102	100	107	101	101

Isotope Dilution Standards	Recovery Limits
S1 = 13C4-PFHpA	40-130%
S2 = 13C8-PFOA	40-130%
S3 = 13C9-PFNA	40-130%
S4 = 13C6-PFDA	40-130%
S5 = 13C3-PFHxS	40-130%
S6 = 13C8-PFOS	40-130%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62826 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/18/26

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.036	.092	-0.020	<0.20

Associated samples MP62826: JE36565-1, JE36565-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62826
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 06/18/26 06/18/26

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.0	2	100.0	85-115	2.0	2	100.0	0.0	

Associated samples MP62826: JE36565-1, JE36565-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62847
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 06/19/26

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	9.2	77		
Antimony	6.0	2.8	4.1		
Arsenic	3.0	2.6	2.5		
Barium	200	.2	17		
Beryllium	1.0	.2	.5		
Bismuth	20	2.5	4.8		
Boron	100	1.8	85		
Cadmium	3.0	.4	1.2		
Calcium	5000	13	130	12.4	<5000
Cerium	100				
Chromium	10	.7	1.5		
Cobalt	50	.6	2.5		
Copper	10	.7	4.1		
Iron	100	3.3	30	9.4	<100
Lead	3.0	2	2.4		
Lithium	50	1.5	9.1		
Magnesium	5000	25	200	-1.0	<5000
Manganese	15	.1	2		
Molybdenum	20	.6	4.5		
Nickel	10	.8	1.8		
Phosphorus	50	7	14		
Potassium	10000	35	200		
Selenium	10	3.6	5.5	-3.7	<10
Silicon	200	2.2	130		
Silver	10	.6	2.4		
Sodium	10000	14	900		
Strontium	10	.1	1.6		
Sulfur	50	3.7	18		
Thallium	10	5.2	1.9		
Tin	50	1.4	4.7		
Titanium	10	.8	1.9		
Tungsten	50	1.3	19		
Vanadium	50	.5	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62847
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 06/19/26

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	8.5		
Zirconium	10	.5	4.9		

Associated samples MP62847: JE36565-1, JE36565-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62847
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date:		06/19/26						06/19/26	
Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits	BSD Result	Spikelot MP200.7A	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium									
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	25200	25000	100.8	85-115	24800	25000	99.2	1.6	20
Cerium									
Chromium	anr								
Cobalt									
Copper	anr								
Iron	25500	25000	102.0	85-115	25500	25000	102.0	0.0	20
Lead	anr								
Lithium									
Magnesium	25400	25000	101.6	85-115	25300	25000	101.2	0.4	20
Manganese	anr								
Molybdenum									
Nickel	anr								
Phosphorus									
Potassium									
Selenium	2090	2000	104.5	85-115	2070	2000	103.5	1.0	20
Silicon									
Silver	anr								
Sodium	anr								
Strontium									
Sulfur									
Thallium									
Tin									
Titanium									
Tungsten									
Vanadium	anr								

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62847
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 06/19/26 06/19/26

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits	BSD Result	Spikelot MP200.7A % Rec	BSD RPD	QC Limit
Zinc	anr						
Zirconium							

Associated samples MP62847: JE36565-1, JE36565-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62847
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 06/19/26

Metal	JE36565-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium				
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	234000	242000	3.1	0-10
Cerium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	11.6	47.5	161.0(a)	0-10
Lead	anr			
Lithium				
Magnesium	87100	80500	7.5	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Phosphorus				
Potassium				
Selenium	7.10	0.00	NC	0-10
Silicon				
Silver	anr			
Sodium	anr			
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	anr			

SERIAL DILUTION RESULTS SUMMARY

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62847 Methods: EPA 200.7
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 06/19/26

Metal	JE36565-1 Original SDL 1:5	%DIF	QC Limits
Zinc	anr		
Zirconium			

Associated samples MP62847: JE36565-1, JE36565-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62849
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 06/19/26

Metal	RL	IDL	MDL	MB raw	MB final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88	0.023	<2.0
Arsenic	1.0	.025	.25	0.014	<1.0
Barium	1.0	.009	.36		
Beryllium	0.50	.005	.065		
Boron	50	.85	18		
Cadmium	0.50	.01	.099	0.0087	<0.50
Calcium	250	3.6	35		
Chromium	4.0	.018	.33	0.022	<4.0
Cobalt	0.50	.003	.06		
Copper	4.0	.024	.65	0.071	<4.0
Iron	50	.24	12		
Lead	0.50	.008	.14	0.032	<0.50
Magnesium	250	.19	43		
Manganese	1.0	.012	.38		
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	.26	0.31	<4.0
Potassium	250	.78	43		
Selenium	1.0	.044	.38		
Silver	2.0	.004	.1	0.0018	<2.0
Sodium	250	1.5	50		
Strontium	5.0	.014	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7	5.0	<10

Associated samples MP62849: JE36565-1, JE36565-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

QC Batch ID: MP62849
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date:		06/19/26					06/19/26	
Metal	BSP Result	Spikelot MPX200.8B% Rec	QC Limits	BSD Result	Spikelot MPX200.8B% Rec	BSD RPD	QC Limit	
Aluminum	anr							
Antimony	74.9	80	93.6	85-115	80.7	80	100.9	7.5	20
Arsenic	80.2	80	100.3	85-115	82.9	80	103.6	3.3	20
Barium									
Beryllium	anr							
Boron									
Cadmium	80.6	80	100.8	85-115	82.3	80	102.9	2.1	20
Calcium									
Chromium	81.7	80	102.1	85-115	84.8	80	106.0	3.7	20
Cobalt									
Copper	81.6	80	102.0	85-115	83.9	80	104.9	2.8	20
Iron	anr							
Lead	75.1	80	93.9	85-115	79.6	80	99.5	5.8	20
Magnesium									
Manganese									
Molybdenum									
Nickel	81.1	80	101.4	85-115	83.9	80	104.9	3.4	20
Potassium									
Selenium	anr							
Silver	76.4	80	95.5	85-115	81.1	80	101.4	6.0	20
Sodium									
Strontium									
Thallium	anr							
Tin									
Titanium									
Vanadium	anr							
Zinc	78.6	80	98.3	85-115	82.1	80	102.6	4.4	20

Associated samples MP62849: JE36565-1, JE36565-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JE36565
Account: TTMAL - Tetra Tech
Project: HVEC Monthly, 3 Van de Graaf Dr, Burlington, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP71214/GN84887	2.0	0.0	mg/l	80	82.6	103.3	90-110%
Chromium, Hexavalent	GN84732	0.010	0.0	mg/l	0.150	0.151	100.7	90-110%
Cyanide	GP71194/GN84948	0.010	0.0	mg/l	0.2	0.216	108.0	90-110%
HEM Petroleum Hydrocarbons	GP71400/GN85261	5.0	0.0	mg/l	20	19.6	98.0	64-132%
Hardness, Total as CaCO3	GN85042	5.0	0.0	mg/l	80.00000	79.5	99.4	80-120%
Hardness, Total as CaCO3	GN85042			mg/l	160.0000	156	98.1	80-120%
Nitrogen, Ammonia	GP71274/GN85014	0.20	0.0	mg/l	1	1.08	108.0	80-120%
Phenols	GP71220/GN85220	0.20	0.0	mg/l	0.5	0.451	90.2	90-110%
Solids, Total Dissolved	GN84886	10	0.0	mg/l	500	496	99.2	71-110%
Solids, Total Suspended	GN84947	4.0	0.0	mg/l	50	49.1	98.2	84-111%
Sulfate	GP71214/GN84887	2.0	0.0	mg/l	80	81.2	101.5	90-110%
Turbidity	GN84739	0.30	0.14	NTU	20	20.0	100.0	90-110%

Associated Samples:
Batch GN84732: JE36565-1, JE36565-2
Batch GN84739: JE36565-1, JE36565-2
Batch GN84886: JE36565-1, JE36565-2
Batch GN84947: JE36565-1, JE36565-2
Batch GN85042: JE36565-1, JE36565-2
Batch GP71194: JE36565-1, JE36565-2
Batch GP71214: JE36565-1, JE36565-2
Batch GP71220: JE36565-1, JE36565-2
Batch GP71274: JE36565-1, JE36565-2
Batch GP71400: JE36565-2
(*) Outside of QC limits

APPENDIX D

HISTORIC WATER QUALITY DATA

Appendix D-1. Historic Water Quality Data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
B-105B	8/6/1984	P	2	13	17	6	1500			6	13	
B-105B	11/9/1984	P					380					
B-105B	11/25/1985	P			7	3	170			6		
B-105B	2/26/1986	P	4	87	38	5.2	280			7.1	87	
B-105B	6/2/1986	P	11	150	49	9	220			6.3	150	
B-105B	9/25/1986	P	6.1	250	50	5.2	240			4.1	250	
B-105B	12/1/1986	P	8.9	140	86	2.8	180			3.4	140	
B-105B	1/22/1987	P	15	100	72	7	180			2.9	100	
B-105B	4/21/1987	P	17	15	60	2	110				15	
B-105B	8/3/1987	P	26	73	100	4.5	140				73	
B-105B	1/19/1988	P	46	29	180	3.6	78				29	
B-105B	4/14/1988	P	66	29	210	3	80				29	
B-105B	7/15/1988	P	47		190		45					
B-105B	4/12/1989	P	54	24	170		39				24	
B-105B	6/12/1995	P	27	42	94	27	15				42	
B-105B	9/11/1995	P	5	15	47			150			15	
B-105B	4/1/1996	P	5	6	21		4	81			6	
B-105B	6/5/1996	P	10	31	45	17	14	310			31	
B-105B	9/19/1996	P	13	32	39	14	10	260			32	
B-105B	12/11/1996	P	13	42	39	16	10	260			42	
B-105B	6/3/1997	P	10	19	15	9	6	170			19	
B-105B	9/22/1998	P		11.7	6.75			39.5			11.7	
B-105B	3/9/1999	P	1.2	10	3.7	1.5	2.1	40.9			10	
B-105B	2/1/2002	P	2.5	4.8	8.2	3.4	2.6	56			19	
B-105B	8/24/2005	P	0.5 U	0.61	2.6	0.87	0.75 U	14		0.5 U	3.1	
B-105B	1/6/2007	P	0.5	0.5 U	3.5	0.66	0.75 U	6.9		0.5 U	3	250 U
B-105B	6/23/2016	P	15	1 U	5	1 U	1 U	2		1 U	1 U	0.416
B-105B	10/5/2016	P	1 U	1 U	1.6	1 U	1 U	3.5		1 U	1 U	
B-105B	10/14/2016	P										1.22
B-105B	5/3/2017	P	18	1 U	6.8	1 U	0.28 J	2		1 U	1 U	0.659
B-105B	6/25/2019	P	1 U	1 U	1 U	1 U	1 U		14	1 U	1 U	0.203 B
B-105B	6/9/2020	P	1 U	1 U	1 U	1 U	1 U		15	1 U	1 U	0.198
B-105B	6/30/2021	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.4 U
B-105B	7/6/2022	P	41.3	1	6.5	1 U	1 U		2.4		1 U	0.78
B-105B	6/13/2023	P	1.1	1 U	9	1 U	1 U		7.9		1 U	0.38
B-105B	12/6/2023	P	1 U	1 U	1.1	1 U	1 U		6.9	1 U	1.4	1 U
B-105B	6/17/2024	P	1 U	1 U	1.9	1 U	1 U		3	1 U	1 U	1 U
B-105B	11/20/2024	P	1 U	1 U	1.1	1 U	1 U	5		1 U	1.1	1 U
B-106	11/1/1994	P	21	56	19	18	29	5 U		5 U		
B-106	2/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
B-106	3/1/1996	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
B-106	3/1/1997	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
B-106	3/1/1999	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
B-106	3/8/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
B-106	12/12/2002	P	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ		1 UJ	1 UJ	1 UJ	
B-106	5/7/2003	P	1 U	1 U	1 U	1 U	1 U		1 U	1 UJ	1 U	
B-106	6/14/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
B-107	11/1/1994	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
B-107	2/1/1995	P	12	40	10	14	21	2.5 U		2.5 U		
B-107	5/1/1995	P	10	40	11	14	26	2 U		2 U		
B-107	12/1/1995	P	3.2	9.3	2.3	5.4	6	1 U		1 U		
B-107	3/1/1996	P	1 U	1.1	1 U	1 U	1 U	1 U		1 U		
B-107	3/1/1997	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
B-107	3/1/1999	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
B-107	3/8/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
B-107	9/13/2001	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
B-107	6/14/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
CES-10S	6/12/1995	P	1200	7	100							
CES-10S	9/11/1995	P	120		260				800		51	
CES-10S	12/28/1995	P	69		78				300			
CES-10S	4/1/1996	P	54		30				130		4	
CES-10S	6/5/1996	P	49	3	28				210		11	
CES-10S	9/19/1996	P	27	22	74				310		51	
CES-10S	12/11/1996	P	18	9	24				290		30	
CES-10S	6/3/1997	P	14		21				340		24	
CES-10S	9/14/1998	P	6.01	10.7	13				205		57	
CES-10S	3/9/1999	P	7.6	10	16.6		1.1				28	
CES-10S	2/1/2002	P	27	1.4	10	0.8	U		16		4.5	
CES-10S	8/24/2005	P	1.9	0.5 U	1.3	0.5 U	0.75 U		7.8	0.5 U	15	
CES-10S	1/5/2007	P	1	0.5 U	1.2	0.5 U	0.75 U		8.3	0.5 U	14	250 U
CES-10S	6/23/2016	P	2.1	1 U	1 U	1 U	1 U		1.2	1 U	1 U	0.2 U
CES-11S	6/12/1995	P	96	9	110	5					3	
CES-11S	9/11/1995	P	300		250				35			

Appendix D-1. Historic Water Quality Data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
CES-11S	12/28/1995	P	400	30	240							
CES-11S	4/1/1996	P	660		270				38			
CES-11S	6/5/1996	P	510	25	180	8			44			
CES-11S	12/11/1996	P	580	27	230	13			36			
CES-11S	6/3/1997	P	500		190				35			
CES-11S	9/14/1998	P	147	8.78	61.6				29.1			
CES-11S	3/9/1999	P	400	103	127	3.9	1.2		34.6			
CES-11S	2/1/2002	P	240	U	53	U	U		27		U	
CES-11S	8/24/2005	P	9.3	0.5 U	4	0.5 U	0.75 U		9.9	0.5 U	1 U	
CES-11S	1/4/2007	P	37	0.5 U	9.6	0.5 U	0.75 U		18	0.5 U	1 U	250 U
CES-11S	6/22/2016	P	1 U	1 U	1 U	1 U	1 U		4.1	1 U	1 U	0.2 U
ERM-2	8/1/1994	P	790	6600	2200	550	250 U	250 U		250 U		
ERM-2	11/1/1994	P	340	2800	1200	290	100 U	100 U		100 U		
ERM-2	2/1/1995	P	180	2000	690	210	100 U	100 U		100 U		
ERM-2	2/1/1995	DUP	180	1800	640	160	100 U	100 U		100 U		
ERM-2	5/1/1995	P	220	2200	830	240	200 U	200 U		200 U		
ERM-2	9/1/1995	P	200	1600	640	280	110	100 U		100 U		
ERM-2	12/1/1995	P	110	640	300	210	120	50 U		50 U		
ERM-2	3/1/1996	P	84	720	270	160	130	50 U		50 U		
ERM-2	9/1/1996	P	39	400	140	100	100	25 U		25 U		
ERM-2	3/1/1997	DUP	19	76	33	22	23	2		2 U		
ERM-2	3/1/1997	P	18	72	41	21	29	3		2 U		
ERM-2	9/1/1997	P	14	53	26	23	26	1		1		
ERM-2	3/1/1998	P	9	34	13	8	10	1 U		1 U		
ERM-2	3/1/1998	DUP	10	40	13	8	11	1 U		1 U		
ERM-2	9/1/1998	P	17	40	17	7	7	1 U		1 U		
ERM-2	3/1/1999	DUP	3.3	15	5.4	3.9	3.9	1 U		1 U		
ERM-2	3/1/1999	P	3.6	17	5.8	3.4	2.8	1 U		1 U		
ERM-2	3/8/1999	P	3.6	17	5.8	3.4	2.8		1 U	1 U	2 U	
ERM-2	3/8/1999	DUP	3.3	15	5.4	3.1	3.9		1 U	1 U	2 U	
ERM-2	9/1/1999	DUP	1.8	6.7	3.2	1.7	2.6	1 U		1 U		
ERM-2	9/1/1999	P	1.7	6.7	3.4	1.7	2.6	1 U		1 U		
ERM-2	9/7/1999	DUP	1.8	6.7	3.2	1.7	2.6		1 U	1 U	2 U	
ERM-2	9/7/1999	P	1.7	6.7	3.4	1.7	2.6		1 U	1 U	2 U	
ERM-2	9/13/2001	DUP	0.71	1.2	0.61	1 U	0.71		1 U	1 U	2 U	
ERM-2	9/13/2001	P	0.75	1.2	0.61	1 U	0.7		1 U	1 U	2 U	
ERM-2	12/10/2002	P	13	55	5	3	3		1 U	1 U	1 U	
ERM-2	12/16/2002	P	11 J	42	5	3	2		1 U	1 U	1 U	
ERM-2	5/7/2003	P	1 U	1 U	1 U	1 U	1 U		1 U	1 UJ	1 U	
ERM-2	4/29/2004	P	0.9 J	0.58 J	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-2	5/5/2005	P	2.2	7	1.4	0.88 J	0.99 J		1 U	1 U	1 U	
ERM-2	7/13/2005	P	1.3	1.3	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-2	6/29/2006	P	0.63 J	2.1	0.52 J	0.45 J	1.2		1 U	1 U	1 U	
ERM-2	5/2/2007	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-2	5/22/2008	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-2	4/28/2009	P	1 U	1 U	1 U	1 U	0.53 J		1 U	1 U	1 U	
ERM-2	6/2/2010	P	4.2	23	1.3	2.8 J	12		1.8	1 U	1 U	
ERM-2	6/6/2011	P	1 U	0.53 J	1 U	1 U	0.53 J		1 U	1 U	1 U	
ERM-2	5/10/2012	P	0.27 J	1.3	0.37 J	1 U	0.59 J		1 U	1 U	1 U	
ERM-2	5/15/2013	P	1 U	0.73 J	1 U	1 U	0.34 J		1 U	1 U	1 U	
ERM-2	6/5/2014	P	1 U	0.45 J	1 U	1 U	0.23 J		1 U	1 U	1 U	
ERM-2	6/14/2016	DUP	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
ERM-2	6/14/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
ERM-5	8/1/1994	P	5 U	11	5 U	5 U	15	5 U		5 U		
ERM-5	11/1/1994	P	1 U	8	1 U	1 U	12	1 U		1 U		
ERM-5	2/1/1995	P	1 U	10	1 U	1	15	1		1 U		
ERM-5	5/1/1995	P	1 U	6	1 U	1 U	10	1 U		1 U		
ERM-5	9/1/1995	P	1 U	6	1 U	1 U	12	1		1 U		
ERM-5	12/1/1995	P	1 U	5.3	1 U	1.2	10	1 U		1 U		
ERM-5	3/1/1996	P	1 U	5.7	1 U	1.1	10	1 U		1 U		
ERM-5	9/1/1996	P	1 U	4.2	1 U	1 U	9.8	1 U		1 U		
ERM-5	3/1/1997	DUP	1 U	4	1 U	1 U	4	1 U		1 U		
ERM-5	3/1/1997	P	1 U	4	1 U	1 U	8	1 U		1 U		
ERM-5	9/1/1997	P	1 U	3	1 U	1 U	7	1 U		1 U		
ERM-5	3/1/1998	DUP	1 U	2	1 U	1 U	7	1 U		1 U		
ERM-5	3/1/1998	P	1 U	2	1 U	1 U	6	1 U		1 U		
ERM-5	9/1/1998	P	1 U	2	1 U	1 U	6	1 U		1 U		
ERM-10	8/1/1994	P	400	2500	240	360	140	100 U		100 U		
ERM-10	11/1/1994	P	380	3200	450	490	180	100 U		100 U		
ERM-10	11/1/1994	DUP	450	3000	520	460	180	100 U		100 U		
ERM-10	2/1/1995	P	460	4700	630	640	250 U	250 U		250 U		
ERM-10	5/1/1995	P	200 U	2800	470	300	200 U	200 U		200 U		

Appendix D-1. Historic Water Quality Data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
ERM-10	9/1/1995	P	400 U	4900	810	490	400 U	400 U		400 U		
ERM-10	12/1/1995	P	360	3900	950	730	420	470		200 U		
ERM-10	3/1/1996	P	500 U	6000 J	940 J	520 J	500 U	500 U		500 U		
ERM-10	9/1/1996	P	200 U	2900	550	210	200 U	200 U		200 U		
ERM-10	3/1/1997	P	96	1600	550	180	120	120		50 U		
ERM-10	9/1/1997	P	35	650	170	96	34	42		25 U		
ERM-10	3/1/1998	P	48	1200	260	140	64	73		25 U		
ERM-10	9/1/1998	DUP	60	760	170	70	40	45		20 U		
ERM-10	9/1/1998	P	59	760	170	75	41	46		20 U		
ERM-10	3/1/1999	DUP	29	880	170	88	52	57		20 U		
ERM-10	3/1/1999	P	49	930	20 U	54	20 U	54		20 U		
ERM-10	3/5/1999	P	49	930	20 U	54	20 U		51	20 U	40 U	
ERM-10	3/5/1999	DUP	29	880	170	88	52		57	20 U	40 U	
ERM-10	9/1/1999	P	26	430	110	42	31	36		20 U		
ERM-10	9/1/1999	DUP	19 J	420	110	43	28	37		20 U		
ERM-10	9/8/1999	DUP	19 J	420	110	43	28		37	20 U	40 U	
ERM-10	9/8/1999	P	26	430	110	42	31		36	20 U	40 U	
ERM-10	9/13/2001	DUP	10	220	48	29	17		14	10 U	20 U	
ERM-10	9/13/2001	P	12	250	58	36	19		17	10 U	20 U	
ERM-12S	8/1/1994	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U		
ERM-12S	11/1/1994	P	2	1 U	4	1 U	1 U	1 U		1 U		
ERM-12S	2/1/1995	P	2	1 U	4	1 U	1 U	1 U		1 U		
ERM-12S	5/1/1995	P	2	1 U	4	1 U	1 U	1 U		1 U		
ERM-12S	9/1/1995	P	2.2	1 U	5.2	1 U	1 U	1 U		1 U		
ERM-12S	12/1/1995	P	1.1	1 U	3.2	1 U	1 U	1 U		1 U		
ERM-12S	3/1/1996	P	2.4	1 U	5.6	1 U	1 U	1 U		1 U		
ERM-12S	9/1/1996	P	2.1	1 U	4.8	1 U	1 U	1 U		1 U		
ERM-12S	3/1/1997	P	3	1 U	5	1 U	1 U	1 U		1 U		
ERM-12S	9/1/1997	P	3	1 U	6	1 U	1 U	1 U		1 U		
ERM-12S	3/1/1998	P	2	1 U	3	1 U	1 U	1 U		1 U		
ERM-12S	9/1/1998	P	3	1 U	4	1 U	1 U	1 U		1 U		
ERM-12S	3/1/1999	P	2.1	1 U	3.2	1 U	1 U	1 U		1 U		
ERM-12S	3/4/1999	P	2.1	1 U	3.2	1 U	1 U		1 U	1 U	2 U	
ERM-12S	9/1/1999	P	1.9	1 U	3.1	1 U	1 U	1 U		1 U		
ERM-12S	9/8/1999	P	1.9	1 U	3.1	1 U	1 U		1 U	1 U	2 U	
ERM-12S	9/13/2001	P	1.6	1 U	2.2	1 U	1 U		1 U	1 U	2 U	
ERM-12S	12/10/2002	P	0.52 J	1 U	2.2	1 U	1 U	1 U	1 U	1 U	1 U	
ERM-12S	12/18/2002	P	1	1 U	2	1 U	1 U		1 U	1 U	1 U	
ERM-12S	5/7/2003	P	2	1 U	2	1 U	1 U		1 U	1 UJ	1 U	
ERM-12S	4/29/2004	P	1.5	1 U	1.8	1 U	1 U		1 U	1 U	1 U	
ERM-12S	5/5/2005	P	1.2	1 U	0.83 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	7/13/2005	P	1.1	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-12S	6/29/2006	P	1.3	1 U	0.92 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	5/3/2007	P	1.1	1 U	0.93 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	5/22/2008	P	1 U	1 U	0.57 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	4/28/2009	P	0.87 J	1 U	0.68 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	6/2/2010	P	0.56 J	1 U	0.34 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	6/6/2011	P	0.68 J	1 U	0.41 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	5/10/2012	P	0.47 J	1 U	0.3 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	5/15/2013	P	0.51 J	1 U	0.25 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	6/5/2014	P	0.38 J	1 U	0.25 J	1 U	1 U		1 U	1 U	1 U	
ERM-12S	6/16/2015	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-12S	6/18/2015	P										0.2 U
ERM-12S	9/14/2015	P										0.2 U
ERM-12S	1/20/2016	P										0.475
ERM-12S	6/9/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.336
ERM-12S	10/5/2016	P										0.292
ERM-12S	12/13/2016	P										0.818
GCB-23	8/31/1994	P	21	5 U	8	5 U	5 U	5 U		5 U	10 U	
GCB-29	8/25/1994	P	9	100	8	5 U	29	5 U		5 U	10 U	
GCB-30	8/25/1994	P	15 J	240	15 J	25 U	25 U	25 U		25 U	50 U	
GCB-34A	8/25/1994	P	180	88	46	25	40	10 U		10 U	20 U	
GCB-34A	9/14/1995	P	11	37	6	8	9	5 U		5 U	10 U	
GCB-34A	9/9/1996	P	3	16	2	4	4		3	1 U	1 U	
GCB-34A	9/24/1997	P	1 U	3	1 U	1 U	1 U		1 U	1 U	1 U	
GCB-35	8/26/1994	P	1100	100 U	100 U	100 U	100 U	100 U		100 U	200 U	
GCB-35	9/14/1995	P	3600	100 U	100 U	100 U	100 U	100 U		100 U	200 U	
GCB-35	12/13/1995	P	2100	100 U	100 U	100 U	100 U	100 U		100 U	200 U	
GCB-35	3/12/1996	P	2800	100 U	63 J	100 U	100 U		100 U	100 U	100 U	
GCB-35	9/10/1996	P	2100	100 U	100 U	100 U	100 U		100 U	100 U	100 U	
GCB-35	9/12/1997	P	940	20 U	20 U	20 U	20 U		20 U	20 U	20 U	
GCB-36	8/25/1994	P	310	10 U	51	10 U	10 U	29		10 U	52	

Appendix D-1. Historic Water Quality Data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
GCB-36	9/14/1995	P	48	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
GCB-36	9/12/1996	P	36	1 U	3	1 U	1 U		3	1 U	1 U	
GCB-36	9/16/1997	P	7	1 U	1 U	1 U	1 U		2	1 U	1 U	
GCB-36	6/18/1999	P	1 U	1 U	1 U	1 U	1 U		2.9	1 U	1 U	
GCB-36	9/12/1999	P	40	1 U	3	1 U	1 U		4.2	1 U	1 U	
GCB-36	9/28/2000	P	1.6	1 U	1 U	1 U	1 U		3.4	1 U	1 U	
GCB-36(R)	9/23/2001	P	11	1 U	0.94	1 U	1 U		2.5	1 U	2 U	
GCB-36(R)	6/16/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
GCB-37	8/26/1994	P	21	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
GCB-37	9/14/1995	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
GCB-37	9/10/1996	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GCB-37	9/17/1997	P	46	1 U	7	1 U	1 U		1 U	1 U	1 U	
GZ/DC-2	6/8/2016	P	5.5	1 U	1	1 U	1 U		1 U	1 U	1 U	0.2 U
GZ/DC-3	4/29/2004	P	29	0.69 J	14	1 U	1 U		1.4	1 U	1 U	
GZ/DC-3	5/5/2005	P	3.7	1 U	1.6	1 U	1 U		1.2	1 U	1 U	
GZ/DC-3	7/13/2005	P	20	1 U	6.7	1 U	1 U		1.3	1 U	1 U	
GZ/DC-3	6/29/2006	P	8.1	1 U	3.6	1 U	1 U		1 U	1 U	1 U	
GZ/DC-3	5/3/2007	P	9.5	1 U	3.8	1 U	1 U		0.43 J	1 U	1 U	
GZ/DC-3	5/22/2008	P	2	1 U	0.7 J	1 U	1 U		1 U	1 U	1 U	
GZ/DC-3	4/28/2009	P	2.9	1 U	1	1 U	1 U		0.37 J	1 U	1 U	
GZ/DC-3	6/2/2010	P	5.8	1 U	1.8	1 U	1 U		0.43 J	1 U	1 U	
GZ/DC-3	6/6/2011	P	4.3	1 U	1	1 U	1 U		0.86 J	1 U	1 U	
GZ/DC-3	5/10/2012	P	4.2	1 U	0.45 J	1 U	1 U		1 U	1 U	1 U	
GZ/DC-3	5/15/2013	P	6.7	1 U	0.99 J	1 U	1 U		1 U	1 U	1 U	
GZ/DC-3	6/5/2014	P	2.9	1 U	0.37 J	1 U	1 U		1 U	1 U	1 U	
GZ/DC-3	11/13/2014	P										0.2 U
GZ/DC-3	6/19/2015	P										0.2 U
GZ/DC-3	9/15/2015	P										0.2 U
GZ/DC-3	1/20/2016	P										0.2 U
GZ/DC-3	6/8/2016	P	3.2 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
GZ/DC-4S	12/1/1994	P	16	5 U	24	5 U	5 U	11		5 U	8 J	
GZ/DC-4S	3/3/1995	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
GZ/DC-4S	6/12/1995	P	23	5 U	26	5 U	5 U	7		5 U	10 U	
GZ/DC-4S	9/15/1995	P	130	12	72	5 U	5 U	5 U		5 U	10 U	
GZ/DC-4S	12/13/1995	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
GZ/DC-4S	3/11/1996	P	2	1	2	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	9/11/1996	P	9	2	8	1 U	1		7	1 U	1 U	
GZ/DC-4S	3/11/1997	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	9/17/1997	P	3	1 U	2	1 U	1 U		2	1 U	1 U	
GZ/DC-4S	3/15/1998	P	5	18	3	2	1 U		1 U	1 U	1 U	
GZ/DC-4S	3/12/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	9/15/1999	P	1.1	1.7	7.2	1 U	2.6		11	1 U	5	
GZ/DC-4S	3/30/2000	P	33	7.1	7	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	9/28/2000	P	11	2.3	7.8	1.3	1.6		15	1 U	2.5	
GZ/DC-4S	3/30/2001	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
GZ/DC-4S	9/25/2001	DUP	4.9	1 U	5.5	1 U	0.76		5.6	1 U	4.8	
GZ/DC-4S	9/25/2001	P	5.1	1 U	5.8	1 U	0.82		6	1 U	5.1	
GZ/DC-4S	5/3/2007	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	5/22/2008	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	4/28/2009	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	6/2/2010	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	6/6/2011	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	5/10/2012	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	6/5/2014	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4S	6/10/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
GZ/DC-5S	3/11/1996	P	840	35	240	20 U	20 U		23	20 U	20 U	
GZ/DC-5S	12/11/2002	P	121	5 U	24	5 U	5 U		5 U	5 U	5 U	
GZ/DC-5S	12/13/2002	P	89	5 U	22	5 U	5 U		5	5 U	5 U	
GZ/DC-5S	5/8/2003	P	110	2 U	13	2 U	2 U		2	2 UJ	2 U	
GZ/DC-5S	6/10/2016	P	38	1 U	4.1 U	1 U	1 U		1.8	1 U	1 U	0.201
GZ/DC-6S	3/11/1996	P	470	27	200	9 J	10 U		31	10 U	10 U	
GZ/DC-6S	12/11/2002	P	4.2	1 U	3.1	1 U	1 U	1.9	1.9	1 U	1 U	
GZ/DC-6S	12/16/2002	P	132	5 U	40	5 U	5 U		30	5 U	5 U	
GZ/DC-6S	5/8/2003	P	130	5 U	43	5 U	5 U		25	5 UJ	5 U	
GZ/DC-6S	4/29/2004	P	40	5 U	18	5 U	5 U		12	5 U	5 U	
GZ/DC-6S	5/5/2005	P	27	1 U	12	1 U	1 U		9.1	1 U	1 U	
GZ/DC-6S	7/13/2005	P	5.2	1 U	2.4	1 U	1 U		1.6	1 U	1 U	
GZ/DC-6S	6/29/2006	P	1.9	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-6S	5/3/2007	P	5.1	1 U	2	1 U	1 U		1.8	1 U	1 U	
GZ/DC-6S	5/22/2008	P	7.6	1 U	1.9	1 U	1 U		1.7	1 U	1 U	
GZ/DC-6S	4/28/2009	P	2.9	1 U	0.93 J	1 U	1 U		0.87 J	1 U	1 U	
GZ/DC-6S	6/2/2010	P	4.8	1 U	1	1 U	1 U		0.62 J	1 U	1 U	

Appendix D-1. Historic Water Quality Data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
GZ/DC-6S	6/6/2011	P	2.5	1 U	0.49 J	1 U	1 U		0.52 J	1 U	1 U	
GZ/DC-6S	5/10/2012	P	0.75 J	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-6S	5/15/2013	P	0.36 J	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GZ/DC-6S	6/5/2014	P	0.86 J	1 U	0.6 J	1 U	1 U		1 U	1 U	1 U	
GZ/DC-6S	11/10/2014	P										0.0822 J
GZ/DC-6S	6/18/2015	P										0.2 U
GZ/DC-6S	9/14/2015	P										0.2 U
GZ/DC-6S	1/20/2016	P										0.2 U
GZ/DC-6S	6/8/2016	P	1.1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-1	2/1/1995	DUP	2 U	10	3	2 U	32	2		2 U		
MW-1	2/1/1995	P	2.5 U	10	3	2.5 U	35	3		2.5 U		
MW-1	5/1/1995	P	2 U	5	2 U	2 U	22	2 U		2 U		
MW-1	3/1/1996	P	1 U	13	1.2	1 U	7.6	1 U		1 U		
MW-1	3/1/1997	P	1 U	6	1	11	1 U	1 U		1 U		
MW-1	3/1/1998	P	1 U	2	1 U	1 U	1 U	1 U		1 U		
MW-1	3/1/1999	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
MW-1	3/5/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
MW-2	11/1/1994	P	50 U	1200	250	50 U	50 U	120		50 U		
MW-2	2/1/1995	P	27	280	45	25 U	25 U	32		1250 U		
MW-2	5/1/1995	P	10 U	140	23	10 U	13	20		10 U		
MW-2	12/1/1995	P	10 U	130	17	10 U	10	10 U		10 U		
MW-2	3/1/1996	P	25 U	380	39	25 U	25 U	25 U		25 U		
MW-2	3/1/1997	P	1	18	2	1 U	1	1 U		1 U		
MW-2	3/1/1998	P	1 U	10	1 U	1 U	1 U	1 U		1 U		
MW-2	3/1/1999	P	1 U	4.7	1 U	1 U	1 U	1 U		1 U		
MW-2	3/5/1999	P	1 U	4.7	1 U	1 U	1 U		1 U	1 U	2 U	
MW-102C	8/26/1994	P	11	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
MW-102C	9/14/1995	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
MW-102C	9/10/1996	P	2	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-102C	9/12/1997	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-102C	9/13/1998	P	2	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-102C	9/12/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-102C	9/30/2000	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-102C(R)	9/22/2001	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
MW-102C(R)	12/10/2002	P	0.83 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
MW-102C(R)	12/12/2002	P	2 J	1 UJ	1 UJ	1 UJ	1 UJ		1 UJ	1 UJ	1 UJ	
MW-102C(R)	5/7/2003	P	1	1 U	1 U	1 U	1 U		1 U	1 UJ	1 U	
MW-102C(R)	6/15/2016	P	4.9 J	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-105B	8/25/1994	P	125 U	2100	125 U	130	180	125 U		125 U	250 U	
MW-105B	11/30/1994	P	50 U	1500	840	110	140	50 U		50 U	100 U	
MW-105B	3/2/1995	P	25 U	670	44	49	75	25 U		25 U	50 U	
MW-105B	6/7/1995	P	13 U	620	48	77	83	13 U		13 U	25 U	
MW-105B	9/13/1995	P	10 U	440	38	80	50	10 U		10 U	20 U	
MW-105B	12/14/1995	P	5 J	500	33	97	40	20 U		20 U	40 U	
MW-105B	3/10/1996	P	16	420	46	100	41		10 U	10 U	10 U	
MW-105B	9/9/1996	P	5 U	120	10	26	11		5 U	5 U	5 U	
MW-105B	3/11/1997	P	6	120	12	35	7		2 U	2 U	2 U	
MW-105B	3/14/1998	P	8	100	11	180	7		2 U	2 U	2 U	
MW-105B	9/13/1998	P	5	59	5	62	2		1 U	1 U	1 U	
MW-105B	4/1/2000	P	1.5	17	1.5	40	1.7		1 U	1 U	1 U	
MW-105B	9/30/2000	P	1.9	52	4.7	21	1 U		1 U	1 U	1 U	
MW-105B	3/31/2001	P	2.8	8.9	4.5	3.4	1 U		0.51	1 U	2 U	
MW-105B	9/26/2001	P	2.7	4.4	4.6	1.4	1 U		0.55	1 U	2 U	
MW-105B	12/22/2014	P	0.89 J	0.47 J	1 U	1 U	1 U		1 U	1 U	1 U	0.0756 J
MW-105B	6/9/2016	P	29	8.2	2.1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-115	6/17/2016	P	1 U	3.2	1.1	1.5	1.1		1 U	1 U	1 U	0.345
MW-203	1/5/2007	P	0.5 U	0.5 U	0.5 U	0.5 U	0.75 U		0.5 U	0.5 U	1 U	250 U
MW-203	6/23/2016	P	1.4	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-501B	8/25/1994	P	25 U	390	16 J	25 U	120	25 U		25 U	50 U	
MW-501B	11/30/1994	P	6	190	7	3 J	49	5 U		5 U	10 U	
MW-501B	3/2/1995	P	5 U	89	5 U	5 U	27	5 U		5 U	10 U	
MW-501B	6/7/1995	P	5 U	87	5 U	5 U	21	5 U		5 U	10 U	
MW-501B	9/13/1995	P	17 J	760	45	25 U	130	25 U		25 U	50 U	
MW-501B	12/14/1995	P	2 J	64	2 J	6	5	5 U		5 U	10 U	
MW-501B	3/10/1996	P	3	60	3	48	10		1 U	1 U	1 U	
MW-501B	9/9/1996	P	2	75	2	12	8		1 U	1 U	1 U	
MW-501B	3/11/1997	P	2	32	1 U	1	1		1 U	1 U	1 U	
MW-501B	3/14/1998	P	3	98	2	59	1 U		1 U	1 U	1 U	
MW-501B	9/13/1998	P	3	86	2	53	2		1 U	1 U	1 U	
MW-501B	3/12/1999	P	25 U	220	25 U	53	25 U		25 U	25 U	25 U	
MW-501B	4/1/2000	P	2 U	51	2 U	6.9	2 U		2 U	2 U	2 U	
MW-501B	9/30/2000	DUP	51 U	1000	51 U	860	51 U		51 U	51 U	51 U	

Appendix D-1. Historic Water Quality Data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-501B	9/30/2000	P	5 U	110	5 U	63	5 U		5 U	5 U	5 U	
MW-501B	3/31/2001	P	1 U	3.5	1 U	1 U	1 U		1 U	1 U	2 U	
MW-501B	9/26/2001	P	2.4	49	0.87	1 U	4.7		1 U	1 U	2 U	
MW-506	8/29/1994	P	57	6	25	5 U	5 U	5 U		5 U	10 U	
MW-506	12/1/1994	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
MW-506	3/3/1995	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
MW-506	6/9/1995	P	36	5 U	12	5 U	5 U	5 U		5 U	10 U	
MW-506	9/15/1995	P	24	5 U	7	5 U	5 U	5 U		5 U	10 U	
MW-506	12/13/1995	P	4 J	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
MW-506	9/11/1996	P	4	1 U	2	1 U	1 U		1 U	1 U	1 U	
MW-506	3/11/1997	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	9/17/1997	P	2	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	3/15/1998	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	9/13/1998	P	9	1 U	3	1 U	1 U		1 U	1 U	1 U	
MW-506	3/14/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	9/15/1999	P	4.7	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	3/30/2000	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	9/29/2000	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	9/24/2001	P	1.7	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
MW-506	12/10/2002	P	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
MW-506	12/12/2002	P	4 J	1 UJ	1 UJ	1 UJ	1 UJ		1 UJ	1 UJ	1 UJ	
MW-506	6/5/2003	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-506	6/16/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
P-203	12/22/2014	DUP	1 U	1 U	1 U	1 U	1 U		0.57 J	1 U	1 U	0.515
P-203	12/22/2014	P	1 U	1 U	1 U	1 U	1 U		0.48 J	1 U	1 U	0.467
P-203	3/19/2015	P										0.504
P-203	6/19/2015	P										0.571
P-203	9/15/2015	P										0.905
P-203	1/21/2016	P										0.719
P-203	6/8/2016	P	1 U	1 U	1.6 U	1 U	2.7		4.9	1 U	1 U	0.678
P-203	10/6/2016	P										0.389
P-203	12/14/2016	P										0.363
P-204	3/11/1996	P	120	190	91	35	6		6	5 U	5 U	
P-204	11/10/2014	DUP	1.7	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.292
P-204	11/10/2014	P	1.7	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.269
P-204	3/19/2015	P										0.278
P-204	6/18/2015	P										0.373
P-204	9/14/2015	P										0.551
P-204	1/20/2016	P										0.2 U
P-204	6/9/2016	P	2 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.351
P-204	10/5/2016	P										0.358
P-204	12/13/2016	P										0.238

U - Not detected at indicated reporting limit B - Analyte detected in the associated blank

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
B-602	4/12/1989	P	260	31	860	6.4	6.4				31	
B-602	1/22/1993	P	101		209							
B-602	9/11/1995	P	280	2	420		3	70			2	
B-602	12/28/1995	P	240		380	12		75				
B-602	4/1/1996	P	63		69		2					
B-602	6/5/1996	P	730		550	27		96				
B-602	3/9/1998	P	40		40.6	1.2		8.1				
B-602	9/14/1998	P	55.8	6.71	83.2	5.02		76.5			6.71	
B-602	8/24/2005	P	37	2.1	37	1.4	0.75 U	8.7		0.5 U	1 U	
B-602	1/5/2007	P	18	0.5 U	6.2	0.5 U	0.75 U	0.5 U		0.5 U	1 U	250 U
B-602	10/6/2016	P	51	0.43 J	30	1.3	0.43 J	8.2		1 U	0.34 J	1.05
B-602	5/4/2017	P	100	0.39 J	34	1.2	0.64 J	12		1 U	0.32 J	1.41
B-602	8/15/2018	P	34	1 U	23	1.2	1 U	53		1 U	1 U	1.12
B-602	6/25/2019	P	7.3	1 U	14	1 U	1 U	45		1 U	1 U	0.296 B
B-602	6/9/2020	P	4	1 U	10	1 U	1 U	21		1 U	1 U	0.126
B-602	6/30/2021	P	3.3	1 U	13.7	1 U	1 U	11.8		1 U	1 U	0.4 U
B-602	7/6/2022	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U
B-602	6/13/2023	P	1 U	1 U	1.6	1 U	1 U	1 U			1 U	1 U
B-602	12/5/2023	P	1 U	1 U	1.6	1 U	1 U	1 U		1 U	1 U	1 U
B-602	6/17/2024	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U
B-602	11/20/2024	P	1 U	1 U	1 U	1 U	1 U	1.6		1 U	1 U	1 U
CES-10D	6/12/1995	P	1200	190	760	73	22					
CES-10D	9/11/1995	P	780		690	42	13	27				
CES-10D	12/28/1995	P	860	160	660	55		29				
CES-10D	4/1/1996	P	1100		640		48	36				
CES-10D	6/5/1996	P	1700	230	940	85		66				
CES-10D	9/19/1996	P	880	130	530	56		25				
CES-10D	12/11/1996	P	620	92	370	31	10	19				
CES-10D	6/3/1997	P	630	99	520	36						
CES-10D	9/14/1998	P	645	45	219	24.9		13.9				
CES-10D	3/9/1999	P	346	26.8	198	10.1	3.4	12.2				
CES-10D	2/1/2002	P	340	15	140	10	U	8.2			U	
CES-10D	8/24/2005	P	170	2 U	71	6.7	3 U	5.9		2 U	4 U	
CES-10D	1/5/2007	P	90	2.7	40	3.4	1.5 U	4		1 U	2 U	500 U
CES-10D	6/23/2016	P	6.2	1 U	1.8	1 U	1 U	1 U		1 U	1 U	0.409
CES-11D	6/12/1995	P	600	38	340	16						
CES-11D	9/11/1995	P	580		450	14		41				
CES-11D	12/28/1995	P	440	37	300			39				
CES-11D	4/1/1996	P	1600		660		26					
CES-11D	6/5/1996	P	1100	71	390			52				
CES-11D	6/3/1997	P	1400	76	510							
CES-11D	9/14/1998	P	2340	93.4	764	37.3	8.8	69.8				
CES-11D	3/9/1999	P	1310	72.2	548	27.6	6.1	53.6			3.2	
CES-11D	2/1/2002	P	360	23	200	14	U	160			U	
CES-11D	8/24/2005	P	200 >	5	110	3.9	1.5 U	27		1 U	2 U	
CES-11D	1/4/2007	P	440	5 U	96	5 U	7.5 U	24		5 U	10 U	2500 U
CES-11D	10/6/2016	P	140	0.5 J	38	1.5	0.95 J	16		1 U	0.79 J	2.51
CES-11D	5/4/2017	DUP	24 J	5 J	50 J	8.6 J	3.8 J	6.8 J		1 U	7.3 J	2.33
CES-11D	5/4/2017	P	110 J	0.38 J	34 J	1.2 J	0.7 J	13 J		1 U	0.37 J	2.12
CES-11D	8/15/2018	P	180	1 U	38	1.6	1 U	15		1 U	1.3	2.96
CES-11D	6/25/2019	DUP	100	1 U	25	1 U	1 U	12		1 U	1 U	1.84
CES-11D	6/25/2019	P	100	1 U	24	1 U	1 U	12		1 U	1	1.87
CES-11D	6/9/2020	DUP	150	1 U	24	1 U	1 U	15		1 U	1.3	1.93
CES-11D	6/9/2020	P	140	1 U	23	1	1 U	15		1 U	1.4	2.06
CES-11D	6/30/2021	DUP	143	1 U	19.4	1 U	1 U	10.8		1 U	1 U	1.7
CES-11D	6/30/2021	P	108	1 U	16.3	1 U	1 U	9.1		1 U	1 U	1.3
CES-11D	7/6/2022	DUP	247	1 U	25.9	1 U	1 U	11.4		1 U	1 U	2.4
CES-11D	7/6/2022	P	228	1 U	24.5	1 U	1 U	11.7		1 U	1 U	2.2
CES-11D	6/13/2023	P	50.4	1 U	10.8	1 U	1 U	3.8			1 U	1.4
CES-11D	6/13/2023	DUP	50.1	1 U	10.5	1 U	1 U	3.9			1 U	1.3
CES-11D	12/5/2023	P	25.4	1 U	9.2	1 U	1 U	3.1		1 U	1 U	1.2
CES-11D	12/5/2023	DUP	27.8	1 U	10.3	1U	1 U	3.4		1 U	1 U	1.4
CES-11D	6/17/2024	P	36.5	1 U	7.4	1 U	1 U	3.2		1 U	1 U	1 U
CES-11D	6/17/2024	DUP	31.9	1 U	7.1	1 U	1 U	3.5		1 U	1 U	1 U
CES-11D	11/20/2024	P	205	1 U	19.8	1 U	1 U	9.4		1 U	1 U	2.4
CES-11D	11/20/2024	DUP	210	1 U	21.3	1U	1 U	9.6		1 U	1 U	1 U
CES-12D	6/12/1995	P	370	43	410	19	6					
CES-12D	9/11/1995	P	230		330	19	7	150			13	
CES-12D	12/28/1995	P	400	64	500	28		89				
CES-12D	4/1/1996	P	1300		1100		68	240				
CES-12D	6/5/1996	P	980	130	690	60		150				
CES-12D	12/11/1996	P	250	63	240	30	12	270			29	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
CES-12D	6/3/1997	P	810	130	730	58		240				
CES-12D	9/14/1998	P	17.8	14.9	21.9	5.53					18.3	
CES-12D	3/9/1999	P	892	80	590	40.4	12.2	83.2			2.9	
CES-12D	2/1/2002	P	400	44	300	33	17	60			U	
CES-12D	8/24/2005	P	98	4.5	61	6.6	3.5		23	1 U	2 U	
CES-12D	1/6/2007	P	6.5	0.6	8.4	1.4	0.81		10	0.5 U	4	250 U
CES-12D	6/23/2016	DUP	1 U	1 U	1 U	1 U	1 U		1.8	1 U	1 U	0.2 U
CES-12D	6/23/2016	P	1 U	1 U	1 U	1 U	1 U		1.8	1 U	1 U	0.2 U
CES-12D	8/15/2018	P	34	1 U	12	1 U	1 U		3.9	1 U	1 U	0.984
ERM-1	8/1/1994	P	1900	2900	680	100 U	91	100		100 U		
ERM-1	11/1/1994	P	2100	5100	1000	520	200 U	200 U		200 U		
ERM-1	2/1/1995	P	890	5400	880	420	250 U	250 U		250 U		
ERM-1	5/1/1995	P	200 U	2600	500	200 U	200 U	200 U		200 U		
ERM-1	9/1/1995	P	250 U	2800	560	250 U	250 U	250 U		250 U		
ERM-1	12/1/1995	DUP	330	3100	660	510	280	200 U		200 U		
ERM-1	12/1/1995	P	320	2900	580	470	260	200 U		200 U		
ERM-1	3/1/1996	P	540 J	4300 J	620 J	570 J	400 U	400 U		400 U		
ERM-1	9/1/1996	DUP	240	2900	470	300	200 U	200 U		200 U		
ERM-1	9/1/1996	P	280	2900	480	310	250 U	250 U		250 U		
ERM-1	3/1/1997	P	560	1700	460	390	170	60		50 U		
ERM-1	9/1/1997	P	33	610	140	130	70	30		25 U		
ERM-1	3/1/1998	P	200	1400	270	240	100	77		25 U		
ERM-1	9/1/1998	P	140	920	200	130	64	68		20 U		
ERM-1	3/1/1999	P	220	1200	210	210	89	41		20 U		
ERM-1	3/5/1999	P	220	1200	210	210	89		41	20 U	40 U	
ERM-1	9/1/1999	P	60	640	160	85	47	53		20 U		
ERM-1	9/8/1999	P	60	640	160	85	47		53	20 U	40 U	
ERM-1	9/13/2001	P	25	250	72	49	29		22	10 U	20 U	
ERM-3	8/1/1994	P	125 U	2700	520	250	125 U	125 U		125 U		
ERM-3	11/1/1994	P	25 U	1300	80	120	25 U	25 U		25 U		
ERM-3	2/1/1995	P	100 U	1700	100 U	150	100 U	100 U		100 U		
ERM-3	5/1/1995	DUP	100 U	1900	100 U	170	100 U	100 U		100 U		
ERM-3	5/1/1995	P	100 U	1400	100 U	110	100 U	100 U		100 U		
ERM-3	9/1/1995	P	100 U	1400	100 U	100	100 U	100 U		100 U		
ERM-3	12/1/1995	P	50 U	810	50 U	92	50 U	50 U		50 U		
ERM-3	3/1/1996	P	100 U	2400	100 U	180	100 U	100 U		100 U		
ERM-3	9/1/1996	P	100 U	2000	120	150	100 U	100 U		100 U		
ERM-3	3/1/1997	P	50 U	2200	150	140	50 U	50 U		50 U		
ERM-3	9/1/1998	P	100 U	3500	370	150	100 U	100 U		100 U		
ERM-3	3/1/1999	P	14	1500 E	130 E	110 E	38	22		1 U		
ERM-3	3/8/1999	P	14	1500 E	130 E	110 E	38		22	1 U	2 U	
ERM-3	9/1/1999	P	50 U	1700	160	30 J	30 J	32 J		50 U		
ERM-3	9/7/1999	P	50 U	1700	160	66	30 J		32 J	50 U	100 U	
ERM-3	9/13/2001	P	19	1500	180	63	29		23	20 U	40 U	
ERM-6	8/1/1994	P	4100	880	990	230	390	3100		125 U		
ERM-6	11/1/1994	P	6500	2000	1200	280	150	1000		100 U		
ERM-6	2/1/1995	P	3000	5100	610	400	250 U	620		250 U		
ERM-6	5/1/1995	P	1600	1900	310	190	120	460		100 U		
ERM-6	9/1/1995	P	940	980	260	110	150	390		80 U		
ERM-6	12/1/1995	P	830	630	360	150	130	240		50 U		
ERM-6	3/1/1996	P	1400	1700	600	230	170	350		100 U		
ERM-6	9/1/1996	P	880	690	390	130	140	350		50 U		
ERM-6	3/1/1997	P	620	260	250	84	88	260		25 U		
ERM-6	9/1/1997	P	420	320	200	130	58	130		10 U		
ERM-6	9/1/1997	DUP	360	320	200	140	66	120		10 U		
ERM-6	3/1/1998	P	640	330	170	73	53	240		20 U		
ERM-6	9/1/1998	P	740	140	160	49	58	180		25 U		
ERM-6	9/1/1998	DUP	750	99	150	42	49	180		25 U		
ERM-6	3/1/1999	P	840	72	140	36	12 J	130		20 U		
ERM-6	3/5/1999	P	840	72	140	36	12 J		130	20 U	40 U	
ERM-6	9/1/1999	P	870	120	220	47	30	65		20 U		
ERM-6	9/8/1999	P	870	120	220	47	30		65	20 U	40 U	
ERM-6	9/13/2001	P	800	73	240	38	24		44	20 U	40 U	
ERM-7	8/1/1994	P	5700	8900	3100	860	250 U	250 U		250 U		
ERM-7	11/1/1994	P	4600	1000	2000	890	200 U	200 U		200 U		
ERM-7	11/1/1994	DUP	4000	9200	1600	740	200 U	200 U		200 U		
ERM-7	5/1/1995	P	1100	2200	540	290	200 U	200 U		200 U		
ERM-7	9/1/1995	DUP	1000	1700	630	280	100 U	100 U		100 U		
ERM-7	9/1/1995	P	1000	1500	570	260	100 U	100 U		100 U		
ERM-7	12/1/1995	P	830	540	430	160	50 U	50 U		200 U		
ERM-7	3/1/1996	DUP	1800	2100	780	420	100	100 U		100 U		
ERM-7	3/1/1996	P	1400	2100	690	370	100	100 U		100 U		

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
ERM-7	9/1/1996	P	1600	1700	770	330	125 U	125 U		125 U		
ERM-7	3/1/1997	P	2400	2800	1200	670	170	100 U		100 U		
ERM-7	9/1/1997	P	480	810	480	250	74	50 U		50 U		
ERM-7	3/1/1998	P	1800	1400	660	390	76	50 U		50 U		
ERM-7	9/1/1998	P	470	1200	280	190	74	38		25 U		
ERM-7	3/1/1999	P	1200	1400	590	280	67	39		20 U		
ERM-7	3/5/1999	P	1200	1400	590	280	67		39	20 U	40 U	
ERM-7	9/1/1999	P	2100	620	680	150	28 J	28 J		50 U		
ERM-7	9/8/1999	P	2100	620	680	150	28 J		28 J	50 U	100 U	
ERM-7	9/13/2001	P	880	530	350	160	27		17	20 U	40 U	
ERM-8	8/1/1994	P	3600	11000	3100	1000	500 U	500 U		500 U		
ERM-8	11/1/1994	P	4800	14000	4300	1500	250 U	250 U		250 U		
ERM-8	2/1/1995	P	2900	10000	2800	1000 J	500 U	500 U		500 U		
ERM-8	5/1/1995	P	3100	8900	2400	940	500 U	500 U		500 U		
ERM-8	9/1/1995	P	2800	8500	2300	1000	500 U	500 U		500 U		
ERM-8	12/1/1995	P	2500	5100	1600	950	250 U	250 U		250 U		
ERM-8	3/1/1996	P	3200	8900	2200	1300	500 U	500 U		500 U		
ERM-8	9/1/1996	P	3200	9600	2200	1200	500 U	500 U		500 U		
ERM-8	3/1/1997	P	2400	4100	1200	760	100 U	100 U		100 U		
ERM-8	9/1/1997	P	220	1000	300	250	50 U	50 U		50 U		
ERM-8	3/1/1998	P	1000	2200	520	320	50 U	50 U		50 U		
ERM-8	9/1/1998	P	460	780	240	120	20 U	20 U		20 U		
ERM-8	3/1/1999	P	360	660	220	120	14 J	13 J		20 U		
ERM-8	3/4/1999	P	360	660	220	120	14 J		13 J	20 U	40 U	
ERM-8	9/1/1999	P	220	280	140	55	9.9 J	8.9 J		10 U		
ERM-8	9/7/1999	P	220	280	140	55	9.9 J		8.9 J	10 U	20 U	
ERM-8	9/13/2001	P	80	32	49	21	4.8		2.2	2 U	4 U	
ERM-8	12/10/2002	P	30	65	40	15	3.5	1.9 J	1.9 J	2 U	2 U	
ERM-8	12/16/2002	P	71	96	28	16	5 U		5 U	5 U	5 U	
ERM-8	5/7/2003	P	38	50	35	16	4		2	1 UJ	1 U	1.99
ERM-8	6/21/2016	P	12	1.1	7.8	3.6	1 U		1 U	1 U	1 U	
ERM-9	8/1/1994	P	4400	750	1800	200 U	200 U	200 U		200 U		
ERM-9	11/1/1994	P	5700	960	2500	190	100 U	100 U		100 U		
ERM-9	5/1/1995	P	3000	470	1200	250 U	250 U	250 U		250 U		
ERM-9	9/1/1995	P	4500	820	1700	100 U	100 U	100 U		100 U		
ERM-9	12/1/1995	P	3300	680	1600	250 U	250 U	250 U		250 U		
ERM-9	9/1/1996	P	3200	470	1500	200 U	200 U	200 U		200 U		
ERM-9	3/1/1997	P	2800	370	1200	100 U	100 U	100 U		100 U		
ERM-9	9/1/1997	P	1400	260	840	110	50 U	50 U		50 U		
ERM-9	9/1/1998	P	2200	50 U	370	50 U	50 U	50 U		50 U		
ERM-9	3/1/1999	P	3100	44 J	600	50 U	50 U	50 U		50 U		
ERM-9	3/4/1999	P	3100	44 J	600	50 U	50 U	100 U	50 U	50 U	100 U	
ERM-9	9/1/1999	P	2600	100 U	470	100 U	100 U			100 U		
ERM-9	9/7/1999	P	2600	100 U	470	100 U	100 U		100 U	100 U	200 U	
ERM-9	9/13/2001	P	1800	66	580	35	50 U		50 U	50 U	100 U	
ERM-9	12/11/2002	P	1910	126	812	64	50 U		50 U	50 U	50 U	
ERM-9	12/16/2002	P	2630	188	1130	98	50 U		50 U	50 U	50 U	
ERM-9	12/16/2002	DUP	2230	170	988	86	50 U	50U		50U	50U	50U
ERM-9	5/8/2003	P	3300	320	1600	190	35 J		28 J	50 U	50 U	
ERM-9	5/8/2003	DUP	3200	340	1600	180	34 J		50 U	50 U	50 U	0.246
ERM-9	12/22/2014	P	5	0.51 J	1.4	1 U	0.25 J		1 U	1 U	1 U	
ERM-9	3/19/2015	P										0.307
ERM-9	7/1/2015	P										0.35
ERM-9	9/15/2015	P										0.419
ERM-9	1/20/2016	P										0.581
ERM-9	6/8/2016	P	290 D	1 U	12	1 U	1 U		1.3	1 U	1 U	0.674
ERM-9	10/5/2016	P										0.2 U
ERM-9	12/14/2016	P										0.21
ERM-12M	8/1/1994	P	10	5 U	45	5 U	5 U	6		5 U		
ERM-12M	11/1/1994	P	13	6	52	2	1 U	5		1 U		
ERM-12M	2/1/1995	P	12	8	54	4 J	2.5 U	5		2.5 U		
ERM-12M	5/1/1995	DUP	12	7	51	5 U	5 U	5 U		5 U		
ERM-12M	5/1/1995	P	12	7	51	5 U	5 U	5 U		5 U		
ERM-12M	9/1/1995	P	22	13	77	5.6	5 U	6.4		5 U		
ERM-12M	12/1/1995	P	19	9.2	52	6	2.5 U	5.8		2.5 U		
ERM-12M	3/1/1996	P	28	17	89	8	5 U	7.9		5 U		
ERM-12M	9/1/1996	P	28	15	88	6.2	5 U	5 U		5 U		
ERM-12M	3/1/1997	P	30	15	62	6	2 U	6		2 U		
ERM-12M	9/1/1997	P	36	16	81	10	2 U	6		2 U		
ERM-12M	3/1/1998	P	27	10	58	5	2 U	6		2 U		
ERM-12M	9/1/1998	P	39	14	75	7	2	6		2 U		
ERM-12M	3/1/1999	P	44	18	100	8.7	1.5 J	7.6		2 U		
ERM-12M	3/4/1999	P	44	18	100	8.7	1.5 J		7.6	2 U	4 U	
ERM-12M	9/1/1999	P	43	15	100	8.2	2	6.6		2 U		
ERM-12M	9/8/1999	P	43	15	100	8.2	2		6.6	2 U	4 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
ERM-12M	9/13/2001	P	84	24	140	17	2.9		6.8	2 U	4 U	
ERM-12M	12/10/2002	P	17	21	110	12	2.6 J	6.9	6.7	3.1 U	3.1 U	
ERM-12M	12/17/2002	P	90	36	165	21	5 U		10	5 U	5 U	
ERM-12M	5/7/2003	P	36	26	120	19	3		8	2 U	2 U	
ERM-12M	4/29/2004	P	53	22	98	14	2.8 J		6.7	5 U	5 U	
ERM-12M	5/5/2005	P	52	19	82 J	11	2		6.1	1 U	1 U	
ERM-12M	7/13/2005	P	66	22	99	15	2.9		7.1	1 U	1 U	
ERM-12M	6/29/2006	P	57	19	87	14	2.5		5.8	1 U	1 U	
ERM-12M	5/2/2007	P	49	14	76	11	2.3		5.1	1 U	1 U	
ERM-12M	5/22/2008	P	44	8.8	64	7.9	1.4		4	1 U	1 U	
ERM-12M	4/28/2009	P	23	6	46	6.7	1.4		3.6	1 U	1 U	
ERM-12M	6/2/2010	P	29	6.8	45	6.8 J	1.3		3	1 U	1 U	
ERM-12M	6/6/2011	P	27	5.2	40	6.2	1.4		3.3	1 U	1 U	
ERM-12M	5/10/2012	P	24	4.4	39	7	1.2		3	1 U	1 U	
ERM-12M	5/15/2013	P	33	4.8	47	8	1.4		3.1	1 U	1 U	
ERM-12M	6/5/2014	P	18	3.2	22	6.4	1.5		17	1 U	1 U	
ERM-12M	6/16/2015	P	17	2.8	26	4.4	1.7		9.3	1 U	1 U	3.94
ERM-12M	6/18/2015	P										
ERM-12M	9/14/2015	P										5.01
ERM-12M	1/21/2016	P										9.23
ERM-12M	6/9/2016	P	21	3.9	40	5.9	3.7		6.1	1 U	12	5.17
ERM-12M	10/5/2016	P										4.88
ERM-12M	12/13/2016	P										6.04
ERM-12M	5/4/2017	P	25	0.78 J	4.7	1 U	0.66 J		0.93 J	1 U	1 U	4.94
ERM-12M	8/15/2018	P	38	3.1	40	7.2	5.2		3.6	1 U	6	6.77
ERM-12M	6/25/2019	P	1 U	1 U	1.7	1 U	6		1 U	1 U	1.2	5.67
ERM-12M	6/9/2020	P	11	1.1	13	2.5	7		1.4	1 U	1 U	7.66
ERM-12M	6/30/2021	P	14.7	1.7	23.8	4.5	5.5		3.6	1 U	7.8	6.9
ERM-12M	7/13/2022	P	11.9	1.8	18.8	3.3	8		3.5	1 U	12.7	1 U
ERM-12M	6/13/2023	P	1.2	1.2	10	1.4	3.5		4.2		1.5	7.0
ERM-12M	12/5/2023	P	1.6	1.4	13.5	2	4		4.6	1 U	3.2	7.9
ERM-12M	6/17/2024	P	1 U	1 U	7.7	1.1	2.7	3.7		1 U	1	6.5
ERM-12M	11/20/2024	P	1.5	1.5	11.6	2.1	4	5.5		1 U	1.1	7.7
ERM-12D	8/1/1994	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U		
ERM-12D	11/1/1994	P	1	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-12D	2/1/1995	P	1	1 U	1	1 UJ	1 U	1 U		1 U		
ERM-12D	5/1/1995	P	1	1 U		1 U	1 U	1 U		1 U		
ERM-12D	9/1/1995	P	1.4	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-12D	12/1/1995	DUP	1.2	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-12D	12/1/1995	P	1.2	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-12D	3/1/1996	P	1.6	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-12D	9/1/1996	DUP	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-12D	9/1/1996	P	1.5	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-12D	3/1/1997	P	3	1 U	1	1 U	1 U	1 U		1 U		
ERM-12D	9/1/1997	P	6	8	6	2	1	1 U		1 U		
ERM-12D	3/1/1998	P	1 U	1 U	1 U	1 U	1	1 U		1 U		
ERM-12D	9/1/1998	P	3	1 U	1	1 U	1 U	1 U		1 U		
ERM-12D	3/1/1999	P	2.8	0.76 J	1.3	1 U	0.75 J	1 U		1 U		
ERM-12D	3/4/1999	P	2.8	0.76 J	1.3	1 U	0.75 J		1 U	1 U	2 U	
ERM-12D	9/1/1999	P	2.5	0.69 J	1.6	0.58	0.89 J	1 U		1 U		
ERM-12D	9/8/1999	P	2.5	0.69 J	1.6	0.58 J	0.89 J		1 U	1 U	2 U	
ERM-12D	9/13/2001	P	3.8	1.2	2.6	1.1	1.2		1 U	1 U	2 U	
ERM-12D	12/10/2002	P	1 U	1 U	0.36 J	0.21 J	0.53 J	1 U	1 U	1 U	1 U	
ERM-12D	12/18/2002	P	2	1 U	1	1 U	1		1 U	1 U	1 U	
ERM-12D	5/7/2003	P	1 U	1 U	1 U	1 U	1 U		1 U	1 UJ	1 U	
ERM-12D	4/29/2004	P	1 U	1 U	1 U	1 U	0.63 J		1 U	1 U	1 U	
ERM-12D	5/5/2005	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-12D	7/13/2005	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-12D	6/29/2006	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-12D	5/3/2007	P	0.6 J	1 U	0.52 J	1 U	0.49 J		1 U	1 U	1 U	
ERM-12D	5/22/2008	P	1 U	1 U	1 U	1 U	0.35 J		1 U	1 U	1 U	
ERM-12D	4/28/2009	P	1 U	1 U	0.29 J	1 U	0.3 J		1 U	1 U	1 U	
ERM-12D	6/2/2010	P	1 U	1 U	0.33 J	1 U	0.23 J		1 U	1 U	1 U	
ERM-12D	6/6/2011	P	1 U	1 U	0.25 J	1 U	1 U		1 U	1 U	1 U	
ERM-12D	5/10/2012	P	1 U	1 U	0.21 J	1 U	1 U		1 U	1 U	1 U	
ERM-12D	5/15/2013	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-12D	6/5/2014	P	1 U	1 U	0.24 J	1 U	1 U		1 U	1 U	1 U	
ERM-12D	6/18/2015	P										0.957
ERM-12D	9/14/2015	P										1.15
ERM-12D	1/20/2016	P										0.2 U
ERM-12D	6/9/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	1.17
ERM-12D	10/5/2016	P										0.836
ERM-12D	12/13/2016	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U		1.07
ERM-13M	8/1/1994	P										
ERM-13M	11/1/1994	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	2/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	5/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	9/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
ERM-13M	12/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	3/1/1996	DUP	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	3/1/1996	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	9/1/1996	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	3/1/1997	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	9/1/1997	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	3/1/1998	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	9/1/1998	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	3/1/1999	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13M	3/4/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
ERM-13M	9/13/2001	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
ERM-13M	12/10/2002	P	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
ERM-13M	12/17/2002	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-13M	5/7/2003	P	1 U	1 U	1 U	1 U	1 U		1 U	1 UJ	1 U	
ERM-13M	6/23/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
ERM-13D	8/1/1994	P	5 U	5 U	5 U	5 U	5 U	5 U		5 U		
ERM-13D	8/1/1994	DUP	5 U	5 U	5 U	5 U	5 U	5 U		5 U		
ERM-13D	11/1/1994	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	2/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	5/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	9/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1		
ERM-13D	9/1/1995	DUP	1 U	1 U	1 U	1 U	1 U	1 U		1		
ERM-13D	12/1/1995	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	3/1/1996	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	9/1/1996	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	3/1/1997	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	9/1/1997	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	3/1/1998	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	9/1/1998	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	3/1/1999	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	3/4/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
ERM-13D	9/1/1999	P	1 U	1 U	1 U	1 U	1 U	1 U		1 U		
ERM-13D	9/7/1999	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
ERM-13D	9/13/2001	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	2 U	
ERM-13D	12/10/2002	P	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
ERM-13D	12/16/2002	P	2 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
ERM-13D	5/7/2003	P	1 U	1 U	1 U	1 U	1 U		1 U	1 UJ	1 U	
ERM-13D	6/23/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
ERM-14D	8/1/1994	P	4200	11000	1900	820	500 U	500 U		500 U		
ERM-14D	8/1/1994	DUP	4200	12000	1900	830	500 U	500 U		500 U		
ERM-14D	11/1/1994	P	740	2500	540	200 U	200 U	200 U		200 U		
ERM-14D	6/21/2016	P	7.9	12	6.5	2.3	4		1.7	1 U	1 U	1.51
GCB-33	8/26/1994	P	5900	500 U	290 J	500 U	500 U	500 U		500 U	1000 U	
GCB-33	12/5/1994	P	3100	125 U	320	125 U	125 U	125 U		125 U	250 U	
GCB-33	3/2/1995	P	1800	50 U	210	50 U	50 U	50 U		50 U	100 U	
GCB-33	6/8/1995	P	1000	50 U	210	50 U	50 U	50 U		50 U	100 U	
GCB-33	9/13/1995	P	930	25 U	230	25 U	25 U	25 U		25 U	50 U	
GCB-33	12/14/1995	P	1700	50 U	200	50 U	50 U	50 U		50 U	100 U	
GCB-33	3/10/1996	P	1400	25 U	160	25 U	25 U		25 U	25 U	25 U	
GCB-33	9/10/1996	P	390	10 U	31	10 U	10 U		54	10 U	10 U	
GCB-33	3/12/1997	P	17	1	16	1 U	1 U		69	1 U	1 U	
GCB-33	9/12/1997	P	310	5 U	44	5 U	5 U		32	5 U	5 U	
GCB-34	8/25/1994	P	3100	250 U	410	250 U	250 U	250 U		250 U	500 U	
GCB-34	11/30/1994	P	1000	50 U	300	50 U	50 U	50 U		50 U	100 U	
GCB-34	3/2/1995	P	320	16	94	13 U	13 U	13 U		13 U	25 U	
GCB-34	6/8/1995	P	260	21	110	8	13	5 U		5 U	10 U	
GCB-34	9/14/1995	P	1200	15 J	230	25 U	25 U	25 U		25 U	50 U	
GCB-34	12/14/1995	P	1400	50 U	220	50 U	50 U	50 U		50 U	100 U	
GCB-34	3/11/1996	P	80	13 J	170	20 U	20 U		20 U	20 U	20 U	
GCB-34	9/9/1996	P	790	25 U	110	25 U	25 U		25 U	25 U	25 U	
GCB-34	3/11/1997	P	590	25 U	95	25 U	25 U		25 U	25 U	25 U	
GCB-34	9/24/1997	P	1400 E	10 U	140	10 U	10 U		10 U	10 U	10 U	
GCB-35A	8/26/1994	P	1300	200 U	72 J	200 U	200 U	200 U		200 U	400 U	
GCB-35A	9/14/1995	P	770	25 U	12 J	25 U	25 U	25 U		25 U	50 U	
GCB-35A	9/10/1996	P	580	20 U	10 J	20 U	20 U		20 U	20 U	20 U	
GCB-35A	9/12/1997	P	660	20 U	20 U	20 U	20 U		20 U	20 U	20 U	
GCB-36A	8/25/1994	P	1100	125 U	56 J	125 U	125 U	125 U		125 U	250 U	
GCB-36A	9/14/1995	P	64	5 U	16	5 U	5 U	5 U	1 U	5 U	10 U	
GCB-36A	9/16/1997	P	1 U	1 U	2	1 U	1 U			1 U	1 U	
GCB-36A	6/18/1999	P	62	1 U	11	1 U	1 U		16	1 U	4	
GCB-36A	9/12/1999	P	87	2 U	3.9	2 U	2 U		2 U	2 U	2 U	
GCB-36A(R)	9/23/2001	P	170	100 U	100 U	100 U	100 U		100 U	100 U	200 U	
GCB-36A(R)	6/16/2016	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
GCB-37A	8/26/1994	P	22	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
GCB-37A	9/14/1995	P	16	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
GCB-37A	9/10/1996	P	0.8 J	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
GCB-37A	9/17/1997	P	79	1	18	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4D	12/1/1994	P	1800	430	1200	110	50 U	50 U		50 U	100 U	
GZ/DC-4D	3/3/1995	P	2200	220	970	100 U	100 U	100 U		100 U	200 U	
GZ/DC-4D	6/12/1995	P	2400	230	960	69	50 U	50 U		50 U	100 U	
GZ/DC-4D	9/15/1995	P	2800	250	970	60 J	100 U	100 U		100 U	200 U	
GZ/DC-4D	12/13/1995	P	2500	100 U	82 J	100 U	100 U	100 U		100 U	200 U	
GZ/DC-4D	3/12/1996	P	720	95	330	38	9 J		15	10 U	10 U	
GZ/DC-4D	9/11/1996	P	470	53	200	17	10 U		7 J	10 U	10 U	
GZ/DC-4D	3/11/1997	P	130	17	59	5	1 U		1 U	1 U	1 U	
GZ/DC-4D	9/17/1997	P	210	18	88	5	5 U		5 U	5 U	5 U	
GZ/DC-4D	3/15/1998	P	300	72	97	17	5 U		5 U	5 U	5 U	
GZ/DC-4D	3/12/1999	P	160	10 U	63	10 U	10 U		10 U	10 U	10 U	
GZ/DC-4D	9/15/1999	P	150	8.4	43	5 U	5 U		5 U	5 U	5 U	
GZ/DC-4D	3/30/2000	P	89	9.3	25	2 U	2 U		2 U	2 U	2 U	
GZ/DC-4D	9/28/2000	P	63	4.2	19	2.8	2 U		2 U	2 U	2 U	
GZ/DC-4D	3/30/2001	P	92	2.9	22	1.9	2 U		1.4	2 U	4 U	
GZ/DC-4D	9/25/2001	P	110	4.4	28	2.8	2 U		1.2	2 U	4 U	
GZ/DC-4D	12/11/2002	DUP	130	5U	46	6.0	5U		5U	5U	5U	
GZ/DC-4D	12/11/2002	P	125	5 U	50	6	5 U		5 U	5 U	5 U	
GZ/DC-4D	12/13/2002	P	87	5 U	21	5 U	5 U		5 U	5 U	5 U	
GZ/DC-4D	5/8/2003	P	140	5 U	47	5	5 U		5 U	5 UJ	5 U	
GZ/DC-4D	4/29/2004	P	60	5 U	22	5 U	5 U		5 U	5 U	5 U	
GZ/DC-4D	5/5/2005	P	41	1.1	15	1.1	1 U		1.1	1 U	1 U	
GZ/DC-4D	7/13/2005	P	120	1.7	29	2.9	1.1		2.2	1 U	1 U	
GZ/DC-4D	6/29/2006	P	37	1 U	14	1	1 U		1 U	1 U	1 U	
GZ/DC-4D	5/3/2007	P	28	1 U	12	0.96 J	1 U		0.63 J	1 U	1 U	
GZ/DC-4D	5/22/2008	P	17	1 U	7.6	0.46 J	1 U		1 U	1 U	1 U	
GZ/DC-4D	4/28/2009	P	15	1 U	8.9	0.51 J	1 U		0.43 J	1 U	1 U	
GZ/DC-4D	6/2/2010	P	1 U	1 U	1 U	1 U	1 U		2.9	1 U	1 U	
GZ/DC-4D	6/6/2011	P	3.2	1 U	2.3	1 U	1 U		0.26 J	1 U	1 U	
GZ/DC-4D	5/10/2012	P	2.5	1 U	1.7	1 U	1 U		0.37 J	1 U	1 U	
GZ/DC-4D	5/15/2013	P	4.5	1 U	2.2	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4D	6/5/2014	P	1.7	1 U	1.2	1 U	1 U		1 U	1 U	1 U	
GZ/DC-4D	6/16/2015	P	1 U	1 U	1 U	1 U	1 U		1.6	1 U	1 U	
GZ/DC-4D	6/10/2016	P	1.8 U	1 U	1.1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
GZ/DC-5D	12/11/2002	P	482	10 U	78	10 U	10 U		18	10 U	10 U	
GZ/DC-5D	12/17/2002	P	357	10 U	77	10 U	10 U		15	10 U	10 U	
GZ/DC-5D	5/8/2003	P	640	20 U	95	20 U	20 U		22	20 U	20 U	
GZ/DC-5D	6/10/2016	DUP	15	1 U	2 U	1 U	1 U		1.3	1 U	1 U	0.231
GZ/DC-5D	6/10/2016	P	15	1 U	1.9 U	1 U	1 U		1.4	1 U	1 U	0.23
GZ/DC-6D	12/12/2002	P	16	1.3 J	79	1.4 J	0.39 J	70	67	1.8 U	1.7 J	
GZ/DC-6D	12/17/2002	P	624	21	188	14	10 U		30	10 U	10 U	
GZ/DC-6D	5/8/2003	P	570	10 U	140	11	10 U		26	10 U	10 U	
GZ/DC-6D	4/29/2004	P	310	5.3 J	79	10 U	10 U		20	10 U	10 U	
GZ/DC-6D	5/5/2005	P	150	2.4	49	1.8	1 U		14	1 U	1 U	
GZ/DC-6D	7/13/2005	P	250	2.4	51	2.6	2 U		16	2 U	2 U	
GZ/DC-6D	6/29/2006	P	160	1 U	37	1.6	1 U		14	1 U	1 U	
GZ/DC-6D	5/3/2007	P	160	1.4	34	1.6	0.39 J		14	1 U	0.37 J	
GZ/DC-6D	5/22/2008	P	110	0.54 J	20	0.98 J	1 U		8.6	1 U	1 U	
GZ/DC-6D	4/28/2009	P	74	1 U	14	0.55 J	1 U	6.1		1 U	1 U	
GZ/DC-6D	6/2/2010	P	45	1 U	10	0.5 J	1 U	4.7		1 U	1 U	
GZ/DC-6D	6/6/2011	P	34	1 U	7.5	0.37 J	1 U	3.2		1 U	1 U	
GZ/DC-6D	5/10/2012	P	18	1 U	4.2	0.21 J	1 U	1.9		1 U	1 U	
GZ/DC-6D	5/15/2013	P	20	1 U	3.8	1 U	1 U	1.5		1 U	1 U	
GZ/DC-6D	6/5/2014	P	5	1 U	2.2	1 U	1 U	0.74 J		1 U	1 U	
GZ/DC-6D	11/10/2014	P	1	1 U	1 U	1 U	1 U	1 U		1 U	1 U	0.0684 J
GZ/DC-6D	6/16/2015	P										
GZ/DC-6D	6/18/2015	P										0.2 U
GZ/DC-6D	9/14/2015	P										0.2 U
GZ/DC-6D	1/20/2016	P										0.2 U
GZ/DC-6D	6/8/2016	P	5.6 U	1 U	1.2 U	1 U	1 U	1 U		1 U	1 U	0.2 U
MW/EW-C	12/11/2002	P	478	46	378 J	33	10 U	20		10 U	10 U	
MW/EW-C	12/17/2002	P	691	36	316	21	10 U	27		10 U	10 U	
MW/EW-C	5/8/2003	P	400	38	350	30	10 U	22		10 U	10 U	
MW/EW-C	4/29/2004	P	610	30	260	16	10 U	8.1 J		10 U	10 U	
MW/EW-C	5/5/2005	P	620	53	360	22	20 U	12 J		20 U	20 U	
MW/EW-C	7/13/2005	P	1000	42	390	25	5 U	10		5 U	5 U	
MW/EW-C	7/13/2005	DUP	980	44	400	28	5	10		5 U	5 U	
MW/EW-C	6/29/2006	DUP	1100	50	420	38	5.7 J	16		10 U	10 U	
MW/EW-C	6/29/2006	P	1200	46	420	33	5.7 J	15		10 U	10 U	
MW/EW-C	5/2/2007	DUP	780	39	320	26	5.2	8.1		5 U	5 U	
MW/EW-C	5/2/2007	P	820	41	340	27	4.8 J	8.5		5 U	5 U	
MW/EW-C	5/22/2008	DUP	650	23	210	18	3.1 J	8.6		5 U	5 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW/EW-C	5/22/2008	P	600	21	200	15	2.8 J	6.2		5 U	5 U	
MW/EW-C	4/28/2009	DUP	600	12	160	13	2.4 J	9.3		5 U	5 U	
MW/EW-C	4/28/2009	P	620	12	150	12	2.3 J	8.5		5 U	5 U	
MW/EW-C	6/2/2010	DUP	1300 D	4.8 J	120	5.8 J	1.7 J	17		5 U	5 U	
MW/EW-C	6/2/2010	P	1200 D	4.8 J	120	5.5 J	1.7 J	16		5 U	5 U	
MW/EW-C	6/6/2011	P	870	5	89	4.6 J	1.2 J	10		5 U	5 U	
MW/EW-C	6/6/2011	DUP	880	4.4 J	92	4.9 J	1.2 J	10		5 U	5 U	
MW/EW-C	5/10/2012	DUP	420	3.7	69	4.9	1 J		6.9	2.5 U	2.5 U	
MW/EW-C	5/10/2012	P	410	3.7	72	5.1	0.95 J		7.2	2.5 U	2.5 U	
MW/EW-C	5/15/2013	DUP	460	4	81	5.7	1.1 J		12	2.5 U	2.5 U	
MW/EW-C	5/15/2013	P	400	4.5	84	6.2	1.2 J		14	2.5 U	2.5 U	
MW/EW-C	6/5/2014	DUP	410	1.1 J	67	3.4	1 J		10	2.5 U	2.5 U	
MW/EW-C	6/5/2014	P	420	1.1 J	69	3.5	1.1 J		11	2.5 U	2.5 U	
MW/EW-C	6/16/2015	DUP	150	3.5	34	3.6	1 U		2.7	1 U	1 U	
MW/EW-C	6/16/2015	P	170	3.8	36	3.6	1 U		2.7	1 U	1 U	
MW/EW-C	6/22/2016	P	340 D	1	84	3	1.8		14	1 U	1 U	4.72
MW/EW-C	8/16/2018	P	490	2.5 U	63	2.5 U	2.5 U		12	2.5 U	2.5 U	2.55
MW/EW-C	6/10/2020	P	490 D	2.5 U	48	2.5 U	2.5 U		12	2.5 U	2.5 U	2.12
MW/EW-C	6/17/2024	P	301	1 U	28	1 U	1 U	8.2		1 U	1 U	1 U
MW-102B	8/26/1994	P	520	50 U	50	50 U	50 U	50 U		50 U	100 U	
MW-102B	9/14/1995	P	3900	100 U	310	100 U	100 U	100 U		100 U	200 U	
MW-102B	12/13/1995	P	110	5 U	16	5 U	5 U	4 J		5 U	10 U	
MW-102B	3/12/1996	P	150	3	17	2 U	2 U		2 J	2 U	2 U	
MW-102B	9/10/1996	P	55	2 U	5	2 U	2 U		2 U	2 U	2 U	
MW-102B	9/12/1997	P	41	1 U	3	1 U	1 U		1 U	1 U	1 U	
MW-102B	9/13/1998	P	78	2 U	6	2 U	2 U		2 U	2 U	2 U	
MW-102B	9/12/1999	P	74	1 U	1.8	1 U	1 U		1 U	1 U	1 U	
MW-102B	9/30/2000	P	24	1 U	4	1 U	1 U		1 U	1 U	1 U	
MW-102B	9/22/2001	P	63	1 U	1.7	1 U	1 U		1 U	1 U	2 U	
MW-102B	12/10/2002	P	7.4	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U	
MW-102B	12/12/2002	P	4 UJ	1 UJ	1 UJ	1 UJ	1 UJ		1 UJ	1 UJ	1 UJ	
MW-102B	5/7/2003	P	18	1 U	0.8 J	1 U	1 U		1 U	1 UJ	1 U	
MW-102B	6/15/2016	P	40	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-102A	8/30/1994	P	500	50 U	27 J	50 U	50 U	50 U		50 U	100 U	
MW-102A	9/15/1995	P	220	5 U	15	5 U	5 U	5 U		5 U	10 U	
MW-102A	9/10/1996	P	61	2 U	5	2 U	2 U		1 J	2 U	2 U	
MW-102A	9/12/1997	P	56	1 U	4	1 U	1 U		1 U	1 U	1 U	
MW-102A	9/17/1998	P	87	1	7	1 U	1 U		1 U	1 U	1 U	
MW-102A	3/14/1999	P	510	39	270	25 U	25 U		25 U	25 U	25 U	
MW-102A	9/12/1999	P	23	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-102A	9/30/2000	P	48	1 U	1	1 U	1 U		1 U	1 U	1 U	
MW-102A	9/22/2001	P	6.6	1 U	0.56	1 U	1 U		1 U	1 U	2 U	
MW-102A	12/10/2002	P	2.4	0.24 J	0.98 J	1 U	1 U	1 U	1 U	1 U	1 U	
MW-102A	12/12/2002	P	5 UJ	1 UJ	1 UJ	1 UJ	1 UJ		1 UJ	1 UJ	1 UJ	
MW-102A	5/7/2003	P	2	1 U	0.7 J	1 U	1 U		1 U	1 UJ	1 U	
MW-102A	6/15/2016	P	3.6	1 U	1.3	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-103	11/30/1994	P	230	10 U	11	10 U	10 U	10 U		10 U	20 U	
MW-103	3/2/1995	P	330	13 U	13 U	13 U	13 U	13 U		13 U	25 U	
MW-103	6/8/1995	P	680	13 U	25	13 U	13 U	13 U		13 U	25 U	
MW-103	9/13/1995	P	470	10 U	15	10 U	10 U	10 U		10 U	20 U	
MW-103	12/14/1995	P	740	25 U	29	25 U	25 U	25 U		25 U	50 U	
MW-103	3/10/1996	P	930	50 U	74	50 U	50 U		50 U	50 U	50 U	
MW-103	9/10/1996	P	440	10 U	14	10 U	10 U		6 J	10 U	10 U	
MW-103	3/11/1997	P	25 U	25 U	28	25 U	25 U		25 U	25 U	25 U	
MW-103	9/12/1997	P	280	5 U	7	5 U	5 U		5 U	5 U	5 U	
MW-103	3/14/1998	P	570	6	11	5 U	5 U		5 U	5 U	5 U	
MW-104B	8/26/1994	P	5400	500 U	730	500 U	500 U	500 U		500 U	1000 U	
MW-104B	12/2/1994	P	2800	125 U	540	125 U	125 U	125 U		125 U	250 U	
MW-104B	3/6/1995	P	3800	100 U	650	100 U	100 U	100 U		100 U	200 U	
MW-104B	6/8/1995	P	4300	100 U	820	100 U	100 U	100 U		100 U	200 U	
MW-104B	9/18/1995	P	5100	125 U	780	125 U	125 U	125 U		125 U	250 U	
MW-104B	12/15/1995	P	2700	120	370	125 U	125 U	125 U		125 U	250 U	
MW-104B	3/12/1996	P	4700	100 U	780	100 U	100 U		100 U	100 U	100 U	
MW-104B	9/12/1996	P	2500	100 U	330	100 U	100 U		100 U	100 U	100 U	
MW-104B	3/13/1997	P	620	20 U	110	20 U	20 U		20 U	20 U	20 U	
MW-104B	9/11/1997	P	1400	20 U	200	20 U	20 U		20 U	20 U	20 U	
MW-104B	6/18/1999	P	830	20 U	120	20 U	20 U		20 U	20 U	20 U	
MW-104B	9/12/1999	P	930	25 U	260	25 U	25 U		25 U	25 U	25 U	
MW-104B	3/31/2000	P	900	20 U	190	20 U	20 U		20 U	20 U	20 U	
MW-104B	9/29/2000	P	560	25 U	130	25 U	25 U		25 U	25 U	25 U	
MW-104B	9/23/2001	P	880	20 U	160	20 U	20 U		20 U	20 U	40 U	
MW-104B	12/22/2014	P	1400	10 U	22	10 U	10 U		5.7 J	10 U	10 U	0.0578 J
MW-104B	6/16/2016	P	820	5 U	16	5 U	5 U		5.6	5 U	5 U	0.2 U

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-104A	8/31/1994	P	6100	500 U	500 U	500 U	500 U	500 U		500 U	1000 U	
MW-104A	12/2/1994	P	2200	125 U	160	125 U	125 U	125 U		125 U	250 U	
MW-104A	3/6/1995	P	2300	50 U	130	50 U	50 U	50 U		50 U	100 U	
MW-104A	6/8/1995	P	2100	50 U	140	50 U	50 U	50 U		50 U	100 U	
MW-104A	9/15/1995	P	1700	50 U	58	50 U	50 U	50 U		50 U	100 U	
MW-104A	12/15/1995	P	810	80	43 J	50 U	50 U	50 U		50 U	100 U	
MW-104A	3/12/1996	P	930	10 U	59	10 U	10 U		3 J	10 U	10 U	
MW-104A	9/12/1996	P	790	10 U	31	10 U	10 U		10 U	10 U	10 U	
MW-104A	3/13/1997	P	240	5 U	15	5 U	5 U		5 U	5 U	5 U	
MW-104A	9/11/1997	P	880	10 U	18	10 U	10 U		10 U	10 U	10 U	
MW-104A	6/18/1999	P	590	10 U	10	10 U	10 U		10 U	10 U	10 U	
MW-104A	9/12/1999	P	830	25 U	25 U	25 U	25 U		25 U	25 U	25 U	
MW-104A	3/31/2000	P	700	20 U	20 U	20 U	20 U		20 U	20 U	20 U	
MW-104A	9/29/2000	P	1100	20 U	26	20 U	20 U		20 U	20 U	20 U	
MW-104A	9/23/2001	P	810	20 U	15	20 U	20 U		20 U	20 U	40 U	
MW-104A	6/16/2016	P	71	1 U	3.2	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-105A	8/25/1994	P	2500 U	24000	1300	3400	2500 U	2500 U		2500 U	5000 U	
MW-105A	11/30/1994	P	1000 U	22000	1000 U	3100	1000 U	1000 U		1000 U	2000 U	
MW-105A	3/2/1995	P	625 U	20000	1100	3100	625 U	625 U		625 U	1250 U	
MW-105A	6/7/1995	P	500 U	19000	1200	2700	500 U	500 U		500 U	1000 U	
MW-105A	9/13/1995	P	500 U	13000	660	1400	500 U	500 U		500 U	1000 U	
MW-105A	12/14/1995	P	500 U	12000	600	1400	280 J	500 U		500 U	1000 U	
MW-105A	3/10/1996	P	120 J	12000	870	1800	360		250 U	250 U	250 U	
MW-105A	9/9/1996	P	25 J	3800	240	500	200		26 J	40 J	50 U	
MW-105A	3/11/1997	P	5	110	11	30	6		2 U	2 U	2 U	
MW-105A	9/16/1997	P	22	1500	100	240	54		20 U	20 U	20 U	
MW-105A	3/14/1998	P	12	500	38	130	26		10 U	10 U	10 U	
MW-105A	9/13/1998	P	12	220	24	95	15		10 U	10 U	10 U	
MW-105A	3/13/1999	P	25 U	1500	140	540	76		25 U	25 U	25 U	
MW-105A	9/11/1999	P	5 U	220	19	22	9.8		5 U	5 U	5 U	
MW-105A	4/1/2000	P	10 U	600	55	68	10 U		10 U	10 U	10 U	
MW-105A	9/30/2000	P	10 U	210	25	37	10 U		10 U	10 U	10 U	
MW-105A	3/31/2001	P	2.1	79	12	41	6.1		1.7	2 U	4 U	
MW-105A	9/26/2001	P	26	150	34	24	5 U		5 U	5 U	10 U	
MW-105A	12/22/2014	P	1.1	1	1	2.2	1 U		1 U	1 U	1 U	0.387
MW-105A	3/19/2015	P										0.466
MW-105A	6/19/2015	DUP										0.493
MW-105A	6/19/2015	P										0.46
MW-105A	9/15/2015	P										0.518
MW-105A	1/21/2016	P										0.889
MW-105A	6/9/2016	P	1.5 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.343
MW-108B	8/30/1994	P	10000	2000	3100	700 U	700 U	700 U		700 U	1400 U	
MW-108B	12/2/1994	P	7100	480	1100	250 U	250 U	250 U		250 U	500 U	
MW-108B	3/7/1995	P	7100	1600	1900	200 U	200 U	200 U		200 U	400 U	
MW-108B	6/9/1995	P	5900	1900	1500	220	125 U	125 U		125 U	250 U	
MW-108B	9/15/1995	P	3500	1300	930	150	100 U	100 U		100 U	200 U	
MW-108B	12/14/1995	P	2100	930	910	130	100 U	35 J		100 U	200 U	
MW-108B	3/11/1996	P	1800	710	980	130	32		120	25 U	25 U	
MW-108B	9/12/1996	P	1000	240	420	42 J	50 U		50 U	50 U	50 U	
MW-108B	3/13/1997	P	240	100	610	20 U	20 U		20 U	20 U	20 U	
MW-108B	9/11/1997	P	1400	150	400	46	20 U		20 U	20 U	20 U	
MW-108B	3/15/1998	P	1500	136	430	80	50 U		50 U	50 U	50 U	
MW-108B	9/18/1998	P	1900	140	480	73	25 U		35	25 U	25 U	
MW-108B	3/14/1999	P	500	50 U	93	50 U	50 U		50 U	50 U	50 U	
MW-108B(R)	9/23/2001	P	570	110	260	29	5.9		15	10 U	20 U	
MW-108A	8/31/1994	P	1200	1000 U	2900	1000 U	1000 U	1000 U		1000 U	2000 U	
MW-108A	12/2/1994	P	5800	4400	4600	670	250 U	250 U		250 U	500 U	
MW-108A	3/7/1995	P	6500	3900	4400	470	200 U	200 U		200 U	400 U	
MW-108A	6/9/1995	P	3900	4800	3500	560	125 U	125 U		125 U	250 U	
MW-108A	9/14/1995	P	11000	12000	10000	1600	250 U	270		250 U	500 U	
MW-108A	12/15/1995	P	2700	1900	2800	340	41 J	94 J		100 U	200 U	
MW-108A	3/11/1996	P	2300	1400	3200	350	70 J		120	100 U	100 U	
MW-108A	9/12/1996	P	1800	1200	2600	240	52 J		93 J	100 U	100 U	
MW-108A	3/13/1997	P	530	470	880	120	26		44	20 U	20 U	
MW-108A	9/18/1997	P	1100	190	700	55	20 U		27	20 U	20 U	
MW-108A	3/15/1998	P	1100	170	620	82	11		28	10 U	10 U	
MW-108A	9/18/1998	P	980	200	580	86	14		29	10 U	10 U	
MW-108A	9/18/1999	P	71	50 U	50 U	50 U	50 U	50 U	50 U	50 U	100 U	
MW-108A(R)	9/23/2001	P	550	100	240	24	10 U		13	10 U	20 U	
MW-109	8/29/1994	P	1200	120	370	100 U	100 U	100 U		100 U	200 U	
MW-109	12/1/1994	P	790	110	300	50 U	50 U	50 U		50 U	100 U	
MW-109	3/6/1995	P	950	72	270	25 U	25 U	25 U		25 U	50 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-109	6/9/1995	P	810	51	210	25 U	25 U	25 U		25 U	50 U	
MW-109	9/15/1995	P	590	46	200	25 U	25 U	25 U		25 U	50 U	
MW-109	12/13/1995	P	400	38	130	7 J	25 U	25 U		25 U	50 U	
MW-109	3/11/1996	P	370	36	120	9 J	10 U		10 U	10 U	10 U	
MW-109	9/11/1996	P	230	28	76	6	5 U		3 J	5 U	5 U	
MW-109	3/11/1997	P	180	14	55	5 U	5 U		5 U	5 U	5 U	
MW-109	9/17/1997	P	160	9	45	3	2 U		2 U	2 U	2 U	
MW-109	3/15/1998	P	230	29	58	7	2 U		2	2 U	2 U	
MW-109	9/13/1998	P	130	10	40	5 U	5 U		5 U	5 U	5 U	
MW-109	3/12/1999	P	440	25 U	110	25 U	25 U		25 U	25 U	25 U	
MW-109	9/11/1999	P	160	5 U	37	5 U	5 U		5 U	5 U	5 U	
MW-109	3/30/2000	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-109(R)	9/24/2001	P	54	2 U	7.8	2 U	2 U		2 U	2 U	4 U	
MW-109(R)	12/10/2002	P	21	0.36 J	5.1	1 U	1 U	0.26 J	0.26 J	1 U	1 U	
MW-109(R)	12/12/2002	P	47 J	1 UJ	9 J	1 UJ	1 UJ		1 UJ	1 UJ	1 UJ	
MW-109(R)	5/8/2003	P	12	1 U	2	1 U	1 U		1 U	1 U	1 U	
MW-109(R)	6/20/2016	P	5	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-110	8/29/1994	P	1300	250 U	330	250 U	250 U	250 U		250 U	500 U	
MW-110	9/15/1995	P	4100	100 U	410	100 U	100 U	100 U		100 U	200 U	
MW-110	12/13/1995	P	2000	100 U	310	100 U	100 U	68 J		100 U	200 U	
MW-110	3/12/1996	P	2500	100 U	540	100 U	100 U		160	100 U	100 U	
MW-110	9/11/1996	P	2100	50 U	280	50 U	50 U		72	50 U	50 U	
MW-110	9/17/1997	P	1600	20 U	210	20 U	20 U		52	20 U	20 U	
MW-110	9/13/1998	P	590	10 U	120	10 U	10 U		41	10 U	10 U	
MW-110	9/11/1999	P	880	50 U	150	50 U	50 U		50 U	50 U	50 U	
MW-110(R)	9/24/2001	DUP	260	10 U	48	10 U	10 U		13	10 U	20 U	
MW-110(R)	9/24/2001	P	220	5 U	38	5 U	5 U		9.1	5 U	10 U	
MW-110(R)	12/10/2002	DUP	160	4.4 U	100	1.1 J	4.4 U	31	30	4.4 U	4.4 U	
MW-110(R)	12/10/2002	P	180	4.4 U	94	1 J	4.4 U	29	29	4.4 U	4.4 U	
MW-110(R)	12/13/2002	P	289	5 U	67	5 U	5 U		24	5 U	5 U	
MW-110(R)	5/8/2003	P	51	1 U	36	1 U	1 U		12	1 U	1 U	
MW-110(R)	6/16/2016	P	6.1	1 U	1.2	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-111	6/17/2016	P	54	1 U	76	4	5.9		13	1 U	1 U	3.07
MW-112	6/20/2016	P	9	1 U	7.4	1 U	1 U		1 U	1 U	1 U	0.313
MW-113	6/17/2016	P	12	10	4.5	3.6	2.8		1.5	1 U	1 U	1.78
MW-114	6/20/2016	P	19	18	3.9	2.9	3.7		1.1	1 U	1 U	1.62
MW-116	6/17/2016	P	2100 D	8700 DJ	73 J	1100 DJ	1400 DJ		85 J	3.2 J	3.5 J	6.97
MW-116	10/7/2016	DUP	2400	14000 J	110	1600	1600 J		120	100 U	100 U	5.24
MW-116	10/7/2016	P	1800	9700 J	100	1200	1000 J		98 J	100 U	100 U	5.11
MW-201B	8/29/1994	P	1500	125 U	570	125 U	125 U	125 U		125 U	250 U	
MW-201B	9/15/1995	P	2800	100 U	410	100 U	100 U	100 U		100 U	200 U	
MW-201B	9/11/1996	P	1400	50 U	320	50 U	50 U		92	50 U	50 U	
MW-201B	9/17/1997	P	1600	50 U	310	50 U	50 U		61	50 U	50 U	
MW-201B	9/14/1998	P	1800	26	370	25 U	25 U		95	25 U	25 U	
MW-201B	9/15/1999	P	1900	50 U	320	50 U	50 U		50 U	50 U	50 U	
MW-201B	9/28/2000	P	1200	25 U	220	25 U	25 U		45	25 U	25 U	
MW-201B	9/24/2001	P	1300	50 U	220	50 U	50 U		50	50 U	100 U	
MW-201B	12/11/2002	P	270	2.5 J	150	2.6 J	9.8 U	67	65	9.8 U	9.8 U	
MW-201B	12/17/2002	P	1310	10 U	154	10 U	10 U		34	10 U	10 U	
MW-201B	5/8/2003	P	920	20 U	98	20 U	20 U		25	20 U	20 U	
MW-201B	4/29/2004	P	750	20 U	70	20 U	20 U		14 J	20 U	20 U	
MW-201B	5/5/2005	P	440	10 U	41	10 U	10 U		8.8 J	10 U	10 U	
MW-201B	7/13/2005	P	500	1 U	40	1 U	1 U		12	1 U	1 U	
MW-201B	6/29/2006	P	79	1 U	25	0.48 J	1.1		8.4	1 U	1 U	
MW-201B	5/3/2007	P	260 D	1 U	32	0.74 J	1 U		15	1 U	1 U	
MW-201B	5/22/2008	P	110	1 U	11	1 U	1 U		21	1 U	1 U	
MW-201B	4/28/2009	P	110	1 U	43	0.55 J	2.2		12	1 U	1 U	
MW-201B	6/2/2010	P	510 D	1 U	28	0.37 J	0.23 J		42	1 U	1 U	
MW-201B	6/6/2011	P	100	1 U	31	1 U	2.5		17	1 U	1 U	
MW-201B	5/10/2012	P	110	1 U	8.9	0.23 J	1 U		26	1 U	1 U	
MW-201B	5/15/2013	P	110	1 U	38	0.68 J	2.1		11	1 U	1 U	
MW-201B	6/5/2014	P	83	1 U	8.3	1 U	1 U		39	1 U	1 U	
MW-201B	6/21/2016	P	190 D	1 U	16	1 U	1 U		9.4	1 U	1 U	1.34
MW-201B	8/14/2018	P	370	2 U	17	2 U	2 U		7.1	2 U	2 U	
MW-201B	6/10/2020	P	280	2 U	9.7	2 U	2 U		5.7	2 U	2 U	0.538
MW-201B	6/17/2024	P	212	1 U	7.4	1 U	1 U	2.2		1 U	1 U	1 U
MW-201A	8/29/1994	P	602	25 U	240	25 U	25 U	25 U		25 U	50 U	
MW-201A	9/19/1995	P	1000	5 U	260	5 U	5 U	5 U		5 U	10 U	
MW-201A	9/11/1996	P	900	20 U	240	20 U	20 U		23	20 U	20 U	
MW-201A	9/17/1997	P	240	5 U	150	5 U	5 U		20	5 U	5 U	
MW-201A	9/14/1998	P	770	16	200	10 U	10 U		30	10 U	10 U	
MW-201A	9/15/1999	P	630	20 U	200	20 U	20 U		20 U	20 U	20 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-201A	9/28/2000	P	360	10 U	130	10	10 U		24	10 U	10 U	
MW-201A	9/24/2001	P	500	10 U	160	10 U	10 U		29	10 U	20 U	
MW-201A	12/11/2002	P	270	11 U	220	5.7 J	5.6 J	29	28	11 U	11 U	
MW-201A	12/19/2002	P	374	10 U	208	10 U	10 U		38	10 U	10 U	
MW-201A	5/8/2003	P	610	20 U	210	20 U	20 U		33	20 U	20 U	
MW-201A	4/29/2004	P	560	20 U	180	20 U	20 U		28	20 U	20 U	
MW-201A	5/5/2005	P	290	72 J	290 J	34 J	9.5 J		170 J	10 U	10 U	
MW-201A	5/5/2005	DUP	380	10 UJ	120 J	10 UJ	10 UJ		25 J	10 U	10 U	
MW-201A	7/13/2005	P	450	2.5 U	110	3.4	3.5		25	2.5 U	2.5 U	
MW-201A	6/29/2006	P	290 DJ	2 U	99	2.8 J	3.5		22	2 U	2 U	
MW-201A	5/3/2007	P	330	2.5 U	120	3.4	5.2		27	2.5 U	2.5 U	
MW-201A	5/22/2008	P	260 D	1 U	82	1.7	3.2		18	1 U	1 U	
MW-201A	4/28/2009	P	280	2 U	89	2.1	4.1		21	2 U	2 U	
MW-201A	6/2/2010	P	530 D	2 U	110	2.7	5.7		29	2 U	2 U	
MW-201A	6/6/2011	P	390	2 U	93	2	6.1		25	2 U	2 U	
MW-201A	5/10/2012	P	250	2.5 U	93	2.5 J	5.2		28	2.5 U	2.5 U	
MW-201A	5/15/2013	P	310	2.5 U	98	2.2 J	5.1		24	2.5 U	2.5 U	
MW-201A	6/5/2014	P	250	2.5 U	62	2.5 U	4		18	2.5 U	2.5 U	
MW-201A	6/16/2015	P	160	1 U	47	1.1	2.3		14	1 U	1 U	
MW-201A	6/20/2016	P	290 D	1 U	69	1.2	5.1		25	1 U	1 U	1.97
MW-201A	8/14/2018	P	290	2 U	86	2 U	7.6		32	2 U	2 U	3.49
MW-201A	6/10/2020	P	340	2 U	80	2 U	8.5		40	2 U	2 U	4.19
MW-201A	6/17/2024	P	201	1 U	51	1 U	5.5	26.9		1 U	1 U	4.80
MW-202B	9/1/1994	P	1900	170	740	100 U	100 U	100 U		100 U	200 U	
MW-202B	9/15/1995	P	2700	310	931	100 U	100 U	100 U		100 U	200 U	
MW-202B	9/11/1996	P	1200	280	570	54	50 U		38 J	50 U	50 U	
MW-202B	9/17/1997	P	790	150	430	22	20 U		20 U	20 U	20 U	
MW-202B	9/14/1998	P	1000	160	420	53	11		24	10 U	10 U	
MW-202B	9/17/1999	P	760	250 U	320	250 U	250 U	250 U	250 U	250 U	500 U	
MW-202B	9/30/2000	P	430	31	150	27	20 U		20 U	20 U	20 U	
MW-202B	9/24/2001	P	400	22	140	11	10 U		12	10 U	20 U	
MW-202B	12/11/2002	P	220	12	130	6 J	8.8 U	12	12	8.8 U	8.8 U	
MW-202B	12/18/2002	P	278	14	121	10 U	10 U		14	10 U	10 U	
MW-202B	5/8/2003	P	200	5 U	74	5 J	5 U		9	5 U	5 U	
MW-202B	4/29/2004	P	100	4.2 J	47	2.6 J	5 U		5	5 U	5 U	
MW-202B	5/5/2005	P	41	2	17	1.7	1 U		1.7	1 U	1 U	
MW-202B	7/13/2005	P	60	2	22	1.5	1 U		2	1 U	1 U	
MW-202B	6/29/2006	P	44	1 U	19	1.2	1 U		1.2	1 U	1 U	
MW-202B	5/3/2007	P	45	1.7	19	1.4	1 U		1.1	1 U	1 U	
MW-202B	5/22/2008	P	36	0.8 J	13	0.87 J	1 U		0.47 J	1 U	1 U	
MW-202B	4/28/2009	P	17	0.43 J	5.8	0.44 J	1 U		0.42 J	1 U	1 U	
MW-202B	6/2/2010	P	54	0.63 J	10	0.51 J	1 U		1.7	1 U	0.28 J	
MW-202B	6/6/2011	P	55	0.26 J	5.5	1 U	1 U		1.3	1 U	1 U	
MW-202B	5/10/2012	P	58	1 U	5.3	0.26 J	1 U		1.1	1 U	1 U	
MW-202B	5/15/2013	P	26	1 U	2.3	1 U	1 U		0.41 J	1 U	1 U	
MW-202B	6/5/2014	P	23	1 U	2.4	1 U	1 U		0.32 J	1 U	1 U	
MW-202B	6/13/2016	P	15	1 U	1.8	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-202B	8/14/2018	P	29	1 U	2.2	1 U	1 U		1 U	1 U	1 U	
MW-202B	6/10/2020	P	66	1 U	3.5	1 U	1 U		1.3	1 U	1 U	
MW-202B	6/17/2024	P	14	1 U	2.4	1 U	1 U	1 U		1 U	1 U	-
MW-202A	8/29/1994	P	3700	580	3300	500 U	500 U	500 U		500 U	1000 U	
MW-202A	9/19/1995	P	6800	660	4200	310	250 U	250 U		250 U	500 U	
MW-202A	9/11/1996	P	2300	390	1700	140	100 U		58 J	100 U	100 U	
MW-202A	9/17/1997	P	2600	300	1900	120	54		65	50 U	50 U	
MW-202A	9/14/1998	P	1400	160	1100	84	63		89	50 U	50 U	
MW-202A	9/17/1999	P	1800	500 U	1200	500 U	500 U	500 U	500 U	500 U	1000 U	
MW-202A	9/30/2000	P	1100	45	600	58	20 U		34	20 U	20 U	
MW-202A	9/24/2001	P	1600	26	650	44	50 U		44	50 U	100 U	
MW-202A	12/11/2002	P	450	30	500	30	14 J	32	31	16 U	16 U	
MW-202A	12/16/2002	P	699	48	532	54	21		46	10 U	10 U	
MW-202A	5/8/2003	P	23	8	120	21	9		62	2 U	2 U	
MW-202A	5/8/2003	DUP	23	9	150	28	11		75	2 U	2 U	
MW-202A	4/29/2004	P	14 J	5.3 J	13 J	12	10 U		370 J	10 U	10 U	
MW-202A	4/29/2004	DUP	28 J	5.2 J	67 J	10	10 U		230 J	10 U	10 U	
MW-202A	5/5/2005	DUP	18	10 U	14	10 U	10 U		150	10 U	12	
MW-202A	5/5/2005	P	15	10 U	9.1 J	10 U	10 U		200	10 U	14	
MW-202A	7/13/2005	DUP	28	1.9	36	4.8	2.5		100	1 U	7.4	
MW-202A	7/13/2005	P	29	1.9	33	5	2.6		100	1 U	7.2	
MW-202A	6/29/2006	P	0.92 J	1 U	120 J	8.3	3.4		170	1 U	1.6	
MW-202A	6/29/2006	DUP	2 U	2 U	22 J	7.5	3.1		220	2 U	2.8	
MW-202A	5/3/2007	P	0.35 J	0.41 J	15	4.4	4.2		120	1 U	33	
MW-202A	5/3/2007	DUP	0.5 J	0.37 J	20	3.8	3.8		110	1 U	28	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-202A	5/22/2008	DUP	23	0.58 J	54	2.7	2.3		28	1 U	4.8	
MW-202A	5/22/2008	P	20	0.66 J	55	2.3	2.5		24	1 U	5.1	
MW-202A	4/28/2009	P	15	0.36 J	50	3.3	1.2		17	1 U	0.62 J	
MW-202A	4/28/2009	DUP	13	1 U	46	2.9	1.2		16	1 U	0.47 J	
MW-202A	6/2/2010	P	35	0.53 J	71	4.9	1.2		15	1 U	0.22 J	
MW-202A	6/2/2010	DUP	32	0.44 J	61	4.2	1.1		14	1 U	1 U	
MW-202A	6/6/2011	P	33	0.51 J	57	3.5	1.4		12	1 U	1 U	
MW-202A	6/6/2011	DUP	29	0.45 J	55	3.4	1.3		11	1 U	1 U	
MW-202A	5/10/2012	DUP	22	0.25 J	46	3.3	0.87 J		8.1	1 U	1 U	
MW-202A	5/10/2012	P	25	1 U	49	3.7	0.91 J		8.3	1 U	1 U	
MW-202A	5/15/2013	P	67	1 U	74	4.7	1		8.6	1 U	1 U	
MW-202A	5/15/2013	DUP	55	1 U	72	4.6	1.1		8.4	1 U	1 U	
MW-202A	6/5/2014	P	37	1 U	60	3.7	0.94 J		9.7	1 U	1 U	
MW-202A	6/5/2014	DUP	50	1 U	66	4.2	0.97 J		9.6	1 U	1 U	
MW-202A	6/16/2015	P	33	1 U	44	2.2	1 U		5.6	1 U	1 U	
MW-202A	6/13/2016	P	49	1 U	45	2.3	1 U		5.5	1 U	1 U	4.68
MW-202A	8/14/2018	P	5.1	1 U	21	1 U	1 U		11	1 U	2.3	5.93
MW-202A	8/16/2018	P										3.91
MW-202A	6/10/2020	P	2.5	1 U	9.3	1.3	1.1		38	1 U	4.8	2.95
MW-202A	6/17/2024	P	1 U	1 U	4.6	1 U	1 U	2.9		1 U	1.1	6.70
MW-203B	8/30/1994	P	2000	1100	1600	190	125 U	77 J		125 U	250 U	
MW-203B	12/1/1994	P	2600	2200	2000	410	125 U	125 U		125 U	250 U	
MW-203B	3/6/1995	P	5000	2900	2800	540	100 U	100 U		100 U	200 U	
MW-203B	6/12/1995	P	3900	2000	2200	410	100 U	100 U		100 U	200 U	
MW-203B	9/18/1995	P	4000	2000	2000	420	125 U	125 U		125 U	250 U	
MW-203B	12/13/1995	P	4100	1800	1600	480	250 U	250 U		250 U	500 U	
MW-203B	3/11/1996	P	2400	1600	1300	370	50		65	34	25 U	
MW-203B	9/11/1996	P	1500	1200	1100	240	44 J		62	50 U	50 U	
MW-203B	3/12/1997	P	1700	1400	990	340	50 U		50 U	50 U	50 U	
MW-203B	9/17/1997	P	2000	1500	1100	240	50 U		50 U	50 U	50 U	
MW-203B	3/15/1998	P	1400	900	870	220	38		51	25 U	25 U	
MW-203B	4/20/1998	P	2800	1600	1400	530	66		80	50 U	50 U	
MW-203B	9/16/1998	P	2200	1500	1200	460	73		89	50 U	50 U	
MW-203B	3/12/1999	P	830	400	510	95	50 U		50 U	50 U	50 U	
MW-203B	9/17/1999	P	360	300	350	88	50 U	50 U	50 U	50 U	100 U	
MW-203B	9/17/1999	DUP	470	380	410	125 U	125 U	125 U	125 U	125 U	250 U	
MW-203B	3/31/2000	P	360	230	220	62	20 U		23	20 U	20 U	
MW-203B	9/30/2000	P	560	310	340	110	20 U		24	20 U	20 U	
MW-203B	3/30/2001	P	600	160	340	65	11		34	20 U	40 U	
MW-203B	9/25/2001	P	510	210	260	80	13		30	10 U	20 U	
MW-203B	12/11/2002	P	31	72	140 J	47	8.9	16	16	4.4 U	4.4 U	
MW-203B	12/16/2002	P	307	164	242	70	18		26	5 U	5 U	
MW-203B	5/8/2003	P	75	95	120	45	7		11	2 U	2 U	
MW-203B	4/29/2004	P	100	36	89	21	4 J		6.6	5 U	5 U	
MW-203B	5/5/2005	P	54	19	80	15 J	2.9		6	1 U	1 U	
MW-203B	7/13/2005	P	25	15	66	16	2.7		5.1	1 U	1 U	
MW-203B	6/29/2006	P	87	11	75	17	3.2		8.8	0.3 J	1 U	
MW-203B	5/2/2007	P	71	6.7	57	13	2.7		3.6	1 U	1 U	
MW-203B	5/22/2008	P	68	3.9	50	10	2		3	1 U	1 U	
MW-203B	4/28/2009	P	58	3	46	8.9	1.9		3	1 U	1 U	
MW-203B	6/2/2010	P	59	3.1	47	9.3 J	2.1		2.9	0.22 J	1 U	
MW-203B	6/6/2011	P	49	2.1	41	7.7	2.4		3	1 U	1 U	
MW-203B	5/10/2012	P	46	1.6	41	8.5	1.8		2.8	1 U	1 U	
MW-203B	5/15/2013	P	49	1.2	39	6.9	1.4		2.4	1 U	1 U	
MW-203B	6/5/2014	P	42	0.88 J	30	6.5	1.2		2.3	1 U	1 U	
MW-203B	11/13/2014	P										22.6
MW-203B	3/19/2015	P										22.1
MW-203B	3/19/2015	DUP										24.4
MW-203B	7/1/2015	DUP										18.6
MW-203B	7/1/2015	P										18.5
MW-203B	9/15/2015	P										21.1
MW-203B	1/21/2016	P										17.2
MW-203B	6/8/2016	P	18	1 U	22	3.7	1.1		1.8	1 U	1 U	17.5
MW-203B	10/6/2016	P										13.1
MW-203B	12/14/2016	DUP										10.5
MW-203B	12/14/2016	P										11.3
MW-203B	5/4/2017	P	19	0.77 J	19	2.7	0.98 J		1.9	1 U	1 U	12.9
MW-203B	8/15/2018	P	20	1 U	20	3.4	1.1		3	1 U	1 U	13.7
MW-203B	6/25/2019	P	16	2.8	17	1.9	1.3		2.8	1 U	1 U	10.8
MW-203B	6/11/2020	P	23	4.4	20	3.8	1.9		4.1	1 U	1 U	13.7
MW-203B	6/30/2021	P	30.1	9.6	21.7	5.3	2.3		3.3	1 U	1 U	21.5
MW-203B	7/7/2022	P	18.1	1 U	1.5	1U	1 U		1 U		1 U	1 U

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-203B	12/5/2022	P	23.1	2.5	24.7	6.0	2.5		3.8	1 U	1 U	11.1
MW-203B	6/13/2023	P	21.2	5.9	22.2	5.6	2.6	3.8			1 U	8.6
MW-203B	6/18/2024	P	15.1	3	16.3	3.7	1.6	2.4		1 U	1 U	10.5
MW-203B	11/20/2024	P	23.2	3.9	25.6	6.8	1.7	3.3		1 U	1 U	9.5
MW-203A	8/30/1994	P	5600	1400	4000	500 U	500 U	500 U		500 U	1000 U	
MW-203A	12/1/1994	P	6600	1600	3000	290	250 U	250 U		250 U	500 U	
MW-203A	3/6/1995	P	7200	1900	3100	400	200 U	200 U		200 U	400 U	
MW-203A	6/12/1995	P	8400	2000	3200	430	250 U	250 U		250 U	500 U	
MW-203A	9/18/1995	P	5500	2200	3200	610	250 U	250 U		250 U	500 U	
MW-203A	12/13/1995	P	2600	2300	1500	460	58 J	77 J		100 U	200 U	
MW-203A	9/11/1996	P	5400	1800	2500	500	66 J		79 J	100 U	100 U	
MW-203A	3/12/1997	P	3300	1800	2000	490	100 U		100 U	100 U	100 U	
MW-203A	9/17/1997	P	1600	680	810	140	50 U		50 U	50 U	50 U	
MW-203A	4/20/1998	P	4800	1800	2200	660	92		110	50 U	50 U	
MW-203A	9/16/1998	P	3700	1400	1600	490	100		130	100 U	100 U	
MW-203A	3/12/1999	P	3000	1000	1400	290	50 U		50 U	50 U	50 U	
MW-203A	9/17/1999	P	1600	700	1100	250 U	250 U	250 U	250 U	250 U	500 U	
MW-203A	3/31/2000	P	1900	820	860	200	100 U		100 U	100 U	100 U	
MW-203A	9/30/2000	P	1100	450	650	110	20 U		110	20 U	20 U	
MW-203A	3/30/2001	P	1700	320	580	120	50 U		83	50 U	100 U	
MW-203A	9/25/2001	P	1100	240	460	99	18		53	20 U	40 U	
MW-203A	12/11/2002	DUP	180 J	170	430	82	19	38	36	9.2 U	9.2 U	
MW-203A	12/11/2002	P	100 J	140	340	75	18	36	34	9.2 U	9.2 U	
MW-203A	12/17/2002	P	461 J	216	426	102	25		49	10 U	10 U	
MW-203A	5/8/2003	P	37	110	190	110	21		55	5 U	5 U	
MW-203A	4/29/2004	P	200	100	280	77	17		62	5 U	5 U	
MW-203A	5/5/2005	P	51	44	140	36 J	10		44	5 U	5 U	
MW-203A	7/13/2005	P	150	58	210	60	16		57	1 U	1 U	
MW-203A	6/29/2006	P	24	28	36	71	36		560 DJ	1.1	0.45 J	
MW-203A	5/2/2007	P	93	21	85	55	25		350	2.5 U	2.5 U	
MW-203A	5/22/2008	P	88	20	100	52	24		340 D	1 U	1 U	
MW-203A	4/28/2009	P	74	13	99	40	17		230	0.5 J	2 U	
MW-203A	6/2/2010	P	110	18	140	45 J	17		190	0.57 J	1 U	
MW-203A	6/6/2011	P	94	12	130	38	16		140	0.46 J	1 U	
MW-203A	5/10/2012	P	84	9.5	120	43	13		160	0.41 J	1 U	
MW-203A	5/15/2013	P	36	2.2	55	25	8.7		130	1 U	1 U	
MW-203A	6/5/2014	P	74	4.4	83	39	9.6		180	2 U	2 U	
MW-203A	11/13/2014	P										36
MW-203A	3/19/2015	P										26.9
MW-203A	6/16/2015	P	37	1.1	40	11	3.5		28	1 U	1 U	
MW-203A	6/19/2015	P										20
MW-203A	9/15/2015	P										21.8
MW-203A	1/21/2016	P										21.5
MW-203A	6/17/2016	P	21	1 U	23	4.9	2.2		14	1 U	1 U	18.6
MW-203A	10/6/2016	P										7.6
MW-203A	12/14/2016	P										13.2
MW-203A	5/4/2017	P	14	0.36 J	8.6	4.2	2.2		83	1 U	1 U	16
MW-203A	8/15/2018	P	4.6	1 U	18	2.2	2.3		16	1 U	3.1	18.2
MW-203A	6/24/2019	P	1.6	1 U	3.7	1 U	1.6		2.2	1 U	1 U	16.1
MW-203A	6/11/2020	P	1 U	1 U	4.5	1.2	6.1		17	1 U	8.3	20.9
MW-203A	6/30/2021	P	12.1	9.2	13.1	2.9	9.6		3.2	1 U	1 U	19.4
MW-203A	7/7/2022	P	1 U	1 U	5.1	1.1	22.1		15.5		11	12.1
MW-203A	6/13/2023	P	1 U	3.6	4.1	1 U	21.4		5.3		5.4	11.9
MW-203A	12/5/2023	P	2.0	2.3	10.7	1 U	15.8		7.3	1 U	2.5	13.3
MW-203A	6/18/2024	P	11.2	3.5	20.7	2.1	12	7.5		1 U	2	13.3
MW-203A	11/20/2024	P	1 U	1.6	3.6	1.9	11.3	29.6		1 U	14.5	13.1
MW-204B	8/30/1994	P	250	28	530	31	23 J	35		25 U	50 U	
MW-204B	9/18/1995	P	330	19	490	21	10 U	16		10 U	20 U	
MW-204B	9/11/1996	P	200	22	420	27	20		23	10 U	10 U	
MW-204B	9/17/1997	P	260	22	430	25	20		19	10 U	10 U	
MW-204B	9/17/1998	P	430	43	510	54	27		27	5 U	5 U	
MW-204B	9/17/1999	P	320	100 U	390	100 U	100 U	100 U	100 U	100 U	200 U	
MW-204B	9/30/2000	P	410	53	380	30	10 U		23	10 U	10 U	
MW-204B	9/24/2001	P	620	79	490	51	13		33	20 U	40 U	
MW-204B	12/11/2002	P	120	63	390	36	10 J	26	26	17 U	17 U	
MW-204B	12/18/2002	P	419	89	471	48	14		36	10 U	10 U	
MW-204B	5/8/2003	P	130	39	320	43	14		26	5 U	5 U	
MW-204B	4/29/2004	P	210	10	260	28	15		24	10 U	10 U	
MW-204B	5/5/2005	P	430	58	320	29 J	20 U		30	20 U	20 U	
MW-204B	7/13/2005	P	530	57	400	50	13		30	5 U	5 U	
MW-204B	6/29/2006	P	780	69	420	68	15		39	5 U	5 U	
MW-204B	5/2/2007	P	120	30	270	42	12		26	0.6 J	2 U	
MW-204B	5/22/2008	P	260	4.6	170	19	8.9		14	2 U	2 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-204B	4/28/2009	P	210	5.5	180	23	9		15	2 U	2 U	
MW-204B	6/2/2010	P	210 D	12	170	21 J	7.2		14	0.24 J	1 U	
MW-204B	6/6/2011	P	190	6.2	140	17	7.2		13	2 U	2 U	
MW-204B	5/10/2012	P	190	4.2	140	20	6.7		13	1 U	1 U	
MW-204B	5/15/2013	P	190	2.5	100	11	3.6		9.2	1 U	1 U	
MW-204B MW-204B	6/5/2014 11/10/2014	P P	200	2.4	68	9.6	2.5		6.1	2 U	2 U	0.0784 J
MW-204B MW-204B	6/16/2015 6/18/2015	P P	160	1.7	56	5.5	1.7		8.3	1 U	1 U	8.14
MW-204B	9/14/2015	P										9.08
MW-204B	1/20/2016	P										10.8
MW-204B	6/9/2016	P	130	1.8	58	5.7	2		17	1 U	1 U	9.42
MW-204B	10/5/2016	P										7.15
MW-204B	12/13/2016	P										8.75
MW-204B	5/3/2017	P	130	1.8	52	5.6	2.1		15	1 U	1 U	8.27
MW-204B MW-204B	8/13/2018 6/26/2019	P P	200 63	2.5 1.1	85 33	8.4 2.8	3.3 1.5		10 12	1 U 1 U	1 U 1 U	11 9.23
MW-204B MW-204B	6/9/2020 6/30/2021	P P	160 141	2.9 5.8	67 60.8	6.8 8.2	3.4 3.5		11 10.7	1 U 1 U	1 U 1 U	12.5 9
MW-204B	6/28/2022	P	108	10.0	43	7.2	4.0		9		1 U	7.50
MW-204B	6/13/2023	P	17.5	9.9	58.6	6.2	4.9		26.1		15.5	6.5
MW-204B	12/5/2023	P	104.0	6.2	44.9	6.7	3.6		10.9	1 U	1 U	8.6
MW-204B	6/13/2023	P	17.5	9.9	58.6	6.2	4.9		26.1		15.5	6.5
MW-204B	12/5/2023	P	104.0	6.2	44.9	6.7	3.6		10.9	1 U	1 U	8.6
MW-204B	6/17/2024	P	101.0	4	42.9	5.6	3	10		1 U	1 U	7.5
MW-204B	11/20/2024	P	19.6	3.8	13	6.5	5	83		1 U	26.4	8.7
MW-204A	8/30/1994	P	370	34	590	25 U	25 U	29		25 U	50 U	
MW-204A	9/19/1995	P	440	36	610	25 U	25 U	25 U		25 U	50 U	
MW-204A	9/11/1996	P	290	43	460	16	5 J		21	10 U	10 U	
MW-204A	9/17/1997	P	310	46	440	20 U	20 U		21	20 U	20 U	
MW-204A	9/17/1998	P	510	90	510	43	9		35	5 U	5 U	
MW-204A	9/17/1999	P	230	100 U	270	100 U	100 U	100 U	100 U	100 U	200 U	
MW-204A	9/30/2000	P	430	72	390	36	10 U		38	10 U	10 U	
MW-204A	9/24/2001	P	560	97	450	46	20 U		43	20 U	40 U	
MW-204A	12/11/2002	P	100	77	380	39	8.8 J	33	32	9.8 U	9.8 U	
MW-204A	12/17/2002	DUP	344	111	420	48	11		40	10 U	10 U	
MW-204A	12/17/2002	P	327	104	401	47	11		41	10 U	10 U	
MW-204A	5/8/2003	P	43	88	34	64	20 U		680	20 U	20 U	
MW-204A	4/29/2004	P	120	80	220	52	12 J		300	20 U	20 U	
MW-204A	7/13/2005	P	500	79	350	53	13		160	2 U	2 U	
MW-204A	6/29/2006	P	150	63	270	56	13		160	0.62 J	2 U	
MW-204A	5/2/2007	P	82	47	200	47	11		80	0.38 J	1 U	
MW-204A	5/22/2008	P	200 D	30	160	24	6.8		87	1 U	1 U	
MW-204A	4/28/2009	P	110	19	120	22	6.7		92	0.24 J	1 U	
MW-204A	6/2/2010	P	130	17	120	19 J	5.4		70	0.21 J	1 U	
MW-204A	6/6/2011	P	96	9.1	80	12	3.7		25	1 U	1 U	
MW-204A	5/10/2012	P	80	5.6	64	10	2.3		14	1 U	1 U	
MW-204A	5/15/2013	P	56	4.1	62	8.4	1.9		21	1 U	1 U	
MW-204A	6/5/2014	P	69	2.9	46	8.1	1.9		33	1 U	1 U	
MW-204A	11/10/2014	P										0.0778 J
MW-204A	3/19/2015	P										7.56
MW-204A	6/18/2015	P										5.95
MW-204A	9/14/2015	P										6.38
MW-204A	1/20/2016	P										31.1
MW-204A	6/9/2016	P	43	1.2	26	3.7	1.7		39	1 U	2.9	7.3
MW-204A	10/5/2016	P										5.96
MW-204A	12/13/2016	P										6.9
MW-204A	5/3/2017	P	38	1.4	28	3.7	1.7		36	1 U	6.4	5.89
MW-204A	8/13/2018	P	44	1.5	53	4.8	3.4		43	1 U	9.5	9.24
MW-204A	6/26/2019	P	26	1.1	37	4.5	2.3		50	1 U	7.7	6.56
MW-204A	6/9/2020	P	2.5	1.4	14	1.8	6.8		17	1 U	61	8.17
MW-204A	6/30/2021	P	74.3	11.1	30.2	5.6	4		12.2	1 U	12.4	5.4
MW-204A	6/28/2022	P	2.5	10.3	40.0	5.3	4		16.4		12.2	4.8
MW-204A	6/13/2023	P	120.0	8.4	50.4	8.1	3.8		9.1		1 U	7.8
MW-204A	12/5/2023	P	7.1	8.9	36.8	4.7	4.9		39.2	1 U	14.5	5.7
MW-204A	6/17/2024	P	8.5	5.7	13.9	4	3.4	54.7		1 U	9.8	6.6
MW-204A	11/20/2024	P	13.9	5.3	18.7	6.3	4.2	72		1 U	8.2	6.9
MW-501A	8/25/1994	P	25000 U	180000	25000 U	25000 U	25000 U	25000 U		25000 U	50000 U	
MW-501A	11/30/1994	P	10000 U	140000	10000 U	11000	10000 U	10000 U		10000 U	20000 U	
MW-501A	3/2/1995	P	28000	130000	9600	11000	5000 U	5000 U		5000 U	10000 U	
MW-501A	6/7/1995	P	2500 U	120000	3500	8900	2500 U	2500 U		2500 U	5000 U	
MW-501A	9/13/1995	P	5000 U	140000	4400 J	10000	5000 U	5000 U		5000 U	10000 U	
MW-501A	12/14/1995	P	5000 U	140000	3800 J	9900	5000 U	5000 U		5000 U	10000 U	
MW-501A	3/11/1996	P	2500	140000	8400	12000	2000 U		2000 U	2000 U	2000 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-501A	9/9/1996	P	1000 U	58000	1900	3100	1000 U		1000 U	1000 U	1000 U	
MW-501A	3/11/1997	P	1000 U	8900	3300	5400	1000 U		1000 U	1000 U	1000 U	
MW-501A	9/16/1997	P	2000 U	120000	2900	4100	2000 U		2000 U	2000 U	2000 U	
MW-501A	3/14/1998	P	2700	180000	7600	10000	2000 U		2000 U	2000 U	2000 U	
MW-501A	9/13/1998	P	1800	9400	4000	4200	1000		1000 U	1000 U	1000 U	
MW-501A	3/12/1999	P	2500 U	136000	2900	6000	2500 U		2500 U	2500 U	2500 U	
MW-501A	9/19/1999	P	10000 U	80000	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	20000 U	
MW-501A	4/1/2000	P	1000 U	36000	1500	1400	1000 U		1000 U	1000 U	1000 U	
MW-501A	9/30/2000	DUP	2000 U	54000	2600	3100	2000 U		2000 U	2000 U	2000 U	
MW-501A	9/30/2000	P	2000 U	64000	3800	3800	2000 U		2000 U	2000 U	2000 U	
MW-501A	3/31/2001	P	2000 U	51000	1800	2100	2000 U		2000 U	2000 U	4000 U	
MW-501A	9/26/2001	P	5000 U	202000	6600	9600	5000 U		5000 U	5000 U	10000 U	
MW-501A	6/17/2016	P	20	170	11	24	29		16	1 U	1 U	0.327
MW-502	8/31/1994	P	340	2600	2200	380	250 U	250 U		250 U	500 U	
MW-502	9/15/1995	P	1200	7600	10000	1300	250 U	250 U		250 U	500 U	
MW-502	3/12/1996	P	1500	200	680	560	130		310	100 U	100 U	
MW-502	9/12/1996	P	640	870	3500	170	71 J		130	100 U	100 U	
MW-502	9/11/1997	P	270	310	1500	65	60		62	20 U	20 U	
MW-502	9/18/1998	P	910	54	620	68	24		34	10 U	10 U	
MW-502	9/19/1999	P	9.3	5 U	7.3	5 U	5 U	5 U	5 U	5 U	10 U	
MW-502(R)	9/23/2001	P	240	13	280	39	25		22	20 U	40 U	
MW-503B	9/1/1994	P	460	190	280	40 J	50 U	50 U		50 U	100 U	
MW-503B	12/5/1994	P	4100	250 U	580	250 U	250 U	250 U		250 U	500 U	
MW-503B	3/7/1995	P	5500	2300	990	180	125 U	125 U		125 U	250 U	
MW-503B	6/8/1995	P	3500	850	680	100 U	100 U	100 U		100 U	200 U	
MW-503B	9/13/1995	P	3000	280	640	100 U	100 U	100 U		100 U	200 U	
MW-503B	12/18/1995	P	2900	100 U	290	100 U	100 U	100 U		100 U	200 U	
MW-503B	3/12/1996	P	1000	120	290	22	20 U		30	20 U	20 U	
MW-503B	9/10/1996	P	1100	50 U	140	50 U	50 U		50 U	50 U	50 U	
MW-503B	3/12/1997	P	350	11	58	10 U	10 U		10 U	10 U	10 U	
MW-503B	9/18/1997	P	800	20 U	54	20 U	20 U		20 U	20 U	20 U	
MW-503B	3/15/1998	P	500	10	39	10 U	10 U		10 U	10 U	10 U	
MW-503B	9/13/1998	P	180	8	19	5 U	5 U		5 U	5 U	5 U	
MW-503A	9/1/1994	P	5400	500 U	500 U	500 U	500 U	500 U		500 U	1000 U	
MW-503A	12/5/1994	P	1900	125 U	190	125 U	125 U	125 U		125 U	250 U	
MW-503A	3/7/1995	P	2400	100 U	260	100 U	100 U	100 U		100 U	200 U	
MW-503A	6/8/1995	P	2200	100 U	290	100 U	100 U	100 U		100 U	200 U	
MW-503A	9/13/1995	P	2800	70	410	50 U	50 U	50 U		50 U	100 U	
MW-503A	12/15/1995	P	2000	21 J	270	50 U	50 U	50 U		50 U	100 U	
MW-503A	3/12/1996	P	1600	29	280	20 U	20 U		24	20 U	20 U	
MW-503A	9/10/1996	P	1400	15 J	190	25 U	25 U		25 U	25 U	25 U	
MW-503A	3/12/1997	P	490	9	52	5 U	5 U		5 U	5 U	5 U	
MW-503A	9/18/1997	P	1300	20 U	110	20 U	20 U		20 U	20 U	20 U	
MW-503A	3/15/1998	P	700	10 U	80	10 U	10 U		10 U	10 U	10 U	
MW-503A	9/19/1998	P	420	5 U	33	5 U	5 U		5	5 U	5 U	
MW-504	8/31/1994	P	1600	110 J	1000	200 U	200 U	200 U		200 U	400 U	
MW-504	3/6/1995	P	1400	48	780	25 U	25 U	25 U		25 U	50 U	
MW-504	6/8/1995	P	2200	50 U	870	50 U	50 U	50 U		50 U	100 U	
MW-504	9/18/1995	P	2700	50 U	830	50 U	50 U	50 U		50 U	100 U	
MW-504	12/18/1995	P	1500	50 U	530	50 U	50 U	28 J		50 U	100 U	
MW-504	3/12/1996	P	1000	25 U	390	25 U	25 U		22 J	25 U	25 U	
MW-504	9/12/1996	P	600	25 U	180	25 U	25 U		12 J	25 U	25 U	
MW-504	9/11/1997	P	1200	20 U	170	20 U	20 U		20 U	20 U	20 U	
MW-504	9/18/1998	DUP	1300	25 U	240	25 U	25 U		34	25 U	25 U	
MW-504	9/18/1998	P	1300	25 U	230	25 U	25 U		34	25 U	25 U	
MW-504	9/18/1999	P	250	50 U	130	50 U	50 U	50 U	50 U	50 U	100 U	
MW-504	9/29/2000	P	420	20 U	68	20 U	20 U		20 U	20 U	20 U	
MW-504	9/22/2001	P	64	1 U	9.3	1 U	1 U		1.3	1 U	2 U	
MW-504	12/10/2002	P	86	6.3 U	160	2 J	1.8 J	14	14	6.3 U	6.3 U	
MW-504	12/16/2002	P	430	10 U	108	10 U	10 U		13	10 U	10 U	
MW-504	5/8/2003	P	90	2 U	59	2	1 J		10	2 U	2 U	
MW-504	6/22/2016	P	590 D	2 U	43	2 U	2 U		10	2 U	2 U	0.568
MW-505B	8/29/1994	P	120	10 U	8 J	10 U	10 U	10 U		10 U	20 U	
MW-505B	12/1/1994	P	51	5 U	9	5 U	5 U	5 U		5 U	10 U	
MW-505B	3/3/1995	P	38	5 U	8	5 U	5 U	5 U		5 U	10 U	
MW-505B	6/9/1995	P	28	5 U	4 J	5 U	5 U	5 U		5 U	10 U	
MW-505B	9/15/1995	P	15	5 U	5 U	5 U	5 U	5 U		5 U	10 U	
MW-505B	12/13/1995	P	8	5 U	1 J	5 U	5 U	5 U		5 U	10 U	
MW-505B	3/11/1996	P	14	1	5	1 U	1 U		1 U	1 U	1 U	
MW-505B	9/11/1996	P	6	0.5 J	2	1 U	1 U		1 U	1 U	1 U	
MW-505B	3/12/1997	P	12	1	4	1 U	1 U		1 U	1 U	1 U	
MW-505B	9/17/1997	P	4	1 U	1	1 U	1 U		1 U	1 U	1 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-505B	3/15/1998	P	25	25	8	3	1 U		1 U	1 U	1 U	
MW-505B	9/13/1998	P	34	2	6	1 U	1 U		1 U	1 U	1 U	
MW-505B	3/15/1999	P	15	1 U	2.4	1 U	1 U		1 U	1 U	1 U	
MW-505B	9/15/1999	DUP	5.7	1 U	2.2	1 U	1 U		1 U	1 U	1 U	
MW-505B	9/15/1999	P	3.3	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-505B	3/30/2000	P	2	1 U	1 U	1 U	1 U		1 U	1 U	1 U	
MW-505B	9/29/2000	P	6.6	1 U	1.5	1 U	1 U		1 U	1 U	1 U	
MW-505A	8/30/1994	P	4000	480 J	1900	150 J	500 U	500 U		500 U	1000 U	
MW-505A	12/1/1994	P	1800	350	1100	82 J	100 U	100 U		100 U	200 U	
MW-505A	3/3/1995	P	2100	280	1300	82	50 U	50 U		50 U	100 U	
MW-505A	6/9/1995	P	2400	240	1300	67	50 U	50 U		50 U	100 U	
MW-505A	9/15/1995	P	2300	230	1000	75	50 U	50 U		50 U	100 U	
MW-505A	12/15/1995	P	1500	240	1000	84	24 J	38 J		50 U	100 U	
MW-505A	3/11/1996	P	990	190	770	72	18 J		28	20 U	20 U	
MW-505A	9/11/1996	P	660	77	340	28	25 U		25 U	25 U	25 U	
MW-505A	3/12/1997	P	230	45	160	17	5 U		7	5 U	5 U	
MW-505A	9/17/1997	P	240	35	200	10	6		9	4 U	4 U	
MW-505A	3/15/1998	P	560	43	250	28	5 U		9	5 U	5 U	
MW-505A	9/16/1998	P	420	39	210	24	7		11	5 U	5 U	
MW-505A	3/15/1999	P	920	48	410	25 U	25 U		25 U	25 U	25 U	
MW-505A	9/15/1999	P	370	20 U	120	20 U	20 U		20 U	20 U	20 U	
MW-505A	3/30/2000	P	240	17	86	10 U	10 U		10 U	10 U	10 U	
MW-505A	9/29/2000	P	190	12	86	9.6	5 U		5 U	5 U	5 U	
MW-507	8/30/1994	P	9000	1000 U	1000 U	1000 U	1000 U	1000 U		1000 U	2000 U	
MW-507	12/2/1994	P	5600	250 U	150 J	250 U	250 U	250 U		250 U	500 U	
MW-507	3/6/1995	P	5200	125 U	150	125 U	125 U	125 U		125 U	250 U	
MW-507	6/9/1995	P	9700	200 U	230	200 U	200 U	200 U		200 U	400 U	
MW-507	9/18/1995	P	11000	250 U	220 J	250 U	250 U	250 U		250 U	500 U	
MW-507	12/18/1995	P	5200	250 U	160 J	250 U	250 U	250 U		250 U	500 U	
MW-507	3/12/1996	P	2900	100 U	120	100 U	100 U		100 U	100 U	100 U	
MW-507	9/12/1996	P	3200	100 U	76 J	100 U	100 U		100 U	100 U	100 U	
MW-507	3/13/1997	P	11000	200 U	200 U	200 U	200 U		200 U	200 U	200 U	
MW-507	9/18/1997	P	6000	100 U	100	100 U	100 U		100 U	100 U	100 U	
MW-507	3/15/1998	P	2900	50 U	140	50 U	50 U		50 U	50 U	50 U	
MW-507	9/18/1998	P	6700	100 U	275	100 U	100 U		110	100 U	100 U	
MW-507	3/14/1999	P	1500	100 U	100 U	100 U	100 U		100 U	100 U	100 U	
MW-507	9/18/1999	P	2600	500 U	500 U	500 U	500 U	500 U	500 U	500 U	1000 U	
MW-507	3/31/2000	P	2100	100 U	100 U	100 U	100 U		100 U	100 U	100 U	
MW-507	9/29/2000	P	2200	50 U	71	50 U	50 U		50 U	50 U	50 U	
MW-507	12/10/2002	P	510	20 U	18 J	20 U	20 U	6.1 J	6 J	20 U	20 U	
MW-507	12/12/2002	P	849 J	20 UJ	20 UJ	20 UJ	20 UJ		20 UJ	20 UJ	20 UJ	
MW-507	5/8/2003	P	3000	50 U	62	50 U	50 U		50 U	50 U	50 U	
MW-507	6/20/2016	DUP	4000 D	1 U	91	1 U	1 U		34	1 U	1 U	0.2 U
MW-507	6/20/2016	P	4300 D	1 U	90	1 U	1 U		36	1 U	1 U	0.2 U
MW-507	10/6/2016	P	3500	25 U	94	25 U	25 U		60	25 U	25 U	
MW-508	8/31/1994	P	54000	6250 U	6250 U	6250 U	6250 U	6250 U		6250 U	12500 U	
MW-508	12/5/1994	P	18000	1000 U	1000 U	1000 U	1000 U	1000 U		1000 U	2000 U	
MW-508	3/7/1995	P	20000	500 U	500 U	500 U	500 U	500 U		500 U	1000 U	
MW-508	6/8/1995	P	20000	500 U	500 U	500 U	500 U	500 U		500 U	1000 U	
MW-508	9/19/1995	P	130000	2500 U	2500 U	2500 U	2500 U	2500 U		2500 U	5000 U	
MW-508	10/10/1995	P	1600	50 U	50 U	50 U	50 U	50 U		50 U	100 U	
MW-508	10/12/1995	P	3000	50 U	50 U	50 U	50 U	50 U		50 U	100 U	
MW-508	11/3/1995	P	2400	50 U	240	50 U	50 U	50 U		50 U	100 U	
MW-508	12/14/1995	P	22000	1250 U	1250 U	1250 U	1250 U	1250 U		1250 U	2500 U	
MW-508	3/12/1996	P	2100	100 U	100 U	100 U	100 U		100 U	100 U	100 U	
MW-508	6/7/1996	P	920	20 U	20 U	20 U	20 U		20 U	20 U	20 U	
MW-508	9/10/1996	P	1300	25 U	25 U	25 U	25 U		25 U	25 U	25 U	
MW-508	9/16/1997	P	210	2 U	2 U	2 U	2 U		2 U	2 U	2 U	
MW-508	9/13/1998	P	930	25 U	25 U	25 U	25 U		25 U	25 U	25 U	
MW-508	3/14/1999	P	580	25 U	25 U	25 U	25 U		25 U	25 U	25 U	
MW-508	9/11/1999	P	110	5 U	5 U	5 U	5 U		5 U	5 U	5 U	
MW-508	4/1/2000	P	120	5 U	5 U	5 U	5 U		5 U	5 U	5 U	
MW-508	9/29/2000	P	5100	200 U	200 U	200 U	200 U		200 U	200 U	200 U	
MW-508	9/23/2001	P	1900	50 U	32	50 U	50 U		50 U	50 U	100 U	
MW-509	9/1/1994	P	2000	250 U	2000	250 U	250 U	260		250 U	500 U	
MW-509	12/5/1994	P	1100	100 U	1400	100 U	100 U	120		100 U	200 U	
MW-509	3/7/1995	P	970	50 U	870	50 U	50 U	50 U		50 U	100 U	
MW-509	6/9/1995	P	1700	50 U	1500	50 U	50 U	79		50 U	100 U	
MW-509	9/19/1995	P	25 U	25 U	25 U	36	25 U	1400		25 U	50 U	
MW-509	10/12/1995	P	1400	25 U	1500	25 U	25 U	190		25 U	50 U	
MW-509	12/14/1995	P	1200	50 U	1100	33 J	30 J	150		50 U	100 U	
MW-509	3/12/1996	P	910	20 U	1100	30	33		110	20 U	20 U	

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-509	9/12/1996	DUP	740	10 U	800	19	20		74	10 U	10 U	
MW-509	9/12/1996	P	660	20 U	720	15 J	19 J		73	20 U	20 U	
MW-509	3/13/1997	P	250	5 U	320	2	9		34	5 U	5 U	
MW-509	9/11/1997	P	410	10 U	570	10 U	14		63	10 U	10 U	
MW-509	3/14/1998	DUP	140	10 U	200	19	13		440	10 U	10 U	
MW-509	3/14/1998	P	130	10 U	200	19	14		440	10 U	10 U	
MW-509	9/18/1998	P	330	5 U	460	24	21		390	5 U	11	
MW-509	3/14/1999	P	150	10 U	260	10 U	10 U		270	10 U	10 U	
MW-509	9/19/1999	P	200	50 U	290	50 U	50 U	50 U	230	50 U	100 U	
MW-509	3/31/2000	DUP	120	5.4	190	5 U	12		210	5 U	6.8	
MW-509	3/31/2000	P	220	5 U	230	5 U	11		110	5 U	5 U	
MW-509	9/29/2000	P	52	5 U	260	8.1	8.1		180	5 U	27	
MW-509(R)	9/22/2001	P	50	2 U	23	2 U	2 U		3.7	2 U	4 U	
MW-509(R)	12/10/2002	P	0.61 J	2.2 U	63	2.2 U	2.2 U	4.6	4.6	2.2 U	2.2 U	
MW-509(R)	12/16/2002	P	10 U	10 U	52	10 U	10 U		10 U	10 U	10 U	
MW-509(R)	5/8/2003	P	1 U	1 U	12	1 U	1 U		45	1 U	1 U	
MW-509(R)	4/29/2004	P	1 U	1 U	20	1 U	0.58 J		16	1 U	5.2	
MW-509(R)	5/5/2005	P	5 U	5 U	9.8	5 U	5 U		4.9 J	5 U	5 U	
MW-509(R)	7/13/2005	P	1 U	1 U	10	1 U	1 U		5.8	1 U	1.4	
MW-509(R)	6/29/2006	P	0.4 J	1 U	11	1 U	0.48 J		3.4	1 U	1.3	
MW-509(R)	5/2/2007	P	1 U	1 U	8.9	1 U	0.5 J		3.5	1 U	1.2	
MW-509(R)	5/22/2008	P	0.49 J	1 U	7.1	1 U	1 U		3	1 U	0.77 J	
MW-509(R)	4/28/2009	P	1 U	1 U	7	1 U	0.42 J		2.5	1 U	0.93 J	
MW-509(R)	6/2/2010	P	1 U	1 U	8.9	1 U	0.64 J		3.1	1 U	1.1 J	
MW-509(R)	6/6/2011	P	1 U	1 U	6.1	1 U	0.57 J		2.1	1 U	0.84 J	
MW-509(R)	5/10/2012	P	0.34 J	1 U	6.9	1 U	0.53 J		2.7	1 U	0.96 J	
MW-509(R)	5/15/2013	P	1 U	1 U	6.2	1 U	0.38 J		2.9	1 U	0.96 J	
MW-509(R)	6/5/2014	P	0.31 J	1 U	8.1	1 U	0.54 J		2.6	1 U	0.94 J	
MW-509(R)	6/22/2016	P	1.8	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-601(R)	12/10/2002	P	130	2.5 J	80	2.7 J	5.5 U	6.2	6.1	5.5 U	5.5 U	
MW-601(R)	12/13/2002	P	736	20 U	71	20 U	20 U		20 U	20 U	20 U	
MW-601(R)	5/8/2003	P	650	20 U	86	20 U	20 U		20 U	20 U	20 U	
MW-601(R)	6/21/2016	P	360 D	1 U	21	1 U	1 U		2.9	1 U	1 U	0.358
MW-602	12/11/2002	P	201	5 U	242	27	27		59	5 U	5 U	
MW-602	12/19/2002	P	254	10 U	221	18	22		50	10 U	10 U	
MW-602	5/8/2003	P	29	10 U	30	27	24		380	10 U	10 U	
MW-602	4/29/2004	P	160	10 U	160	24	22		330	10 U	10 U	
MW-602	5/5/2005	P	470	25 U	400	24 J	18 J		270	25 U	25 U	
MW-602	7/13/2005	P	300	2.3	380	36	25		320	2 U	2 U	
MW-602	6/29/2006	P	10 J	2.1 J	24	47	31		930 DJ	5 U	5 U	
MW-602	5/3/2007	P	450	1.2 J	380	42	30		410	2.5 U	2.5 U	
MW-602	5/22/2008	P	3.4	1 U	30	5.6	26		120	0.4 J	110	
MW-602	4/28/2009	P	350 D	0.8 J	340 D	26	24		230 D	0.41 J	56	
MW-602	6/2/2010	P	170	0.38 J	240 D	25	21		320 D	0.35 J	80	
MW-602	6/6/2011	P	15	1 U	33	5.9	24		140	0.39 J	93	
MW-602	5/10/2012	P	11	1 U	52	3.8	18		47	0.27 J	44	
MW-602	5/15/2013	P	85	1 U	160	6.6	19		35	0.4 J	38	
MW-602	6/5/2014	P	8.5	1 U	3.3	9.8	21		260 D	0.36 J	65	
MW-602	6/16/2015	P	6.3	1 U	4.4	5.5	18		160	1 U	120	
MW-602	6/21/2016	P	130	1 U	110	5.8	8.1		98	1 U	11	15.8
MW-602	10/7/2016	P	51	1.4	120	9.7	15		170	1 U	42	12.1
MW-602	8/16/2018	P	150	1 U	220 D	7.9	15		70	1 U	28	16.9
MW-602 * GZ/DC-5D*	6/17/2024	P	9	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U
MW-602	6/10/2020	P	70	1 U	75	7.9	17		270 D	1 U	49	19.1
MW-603	12/10/2002	P	130	5.9	58	4.5	1.3 J	3.3 J	3.3 J	4.4 U	4.4 U	
MW-603	12/13/2002	P	184	9	59	7	5 U		5 U	5 U	5 U	
MW-603	5/8/2003	P	130	5 U	39	4 J	5 U		5 U	5 U	5 U	
MW-603	4/29/2004	P	67	5 U	19	5 U	5 U		5 U	5 U	5 U	
MW-603	5/5/2005	P	81	1.6	20	1.5 J	0.51 J		1.6	1 U	1 U	
MW-603	7/13/2005	P	140	1.6	26	2.6	1 U		2.1	1 U	1 U	
MW-603	6/29/2006	P	92	0.84 J	17	1.6	0.62 J		1.5	1 U	1 U	
MW-603	5/2/2007	P	77	0.58 J	13	1.1	0.42 J		1.1	1 U	1 U	
MW-603	5/22/2008	P	38	1 U	8	0.61 J	1 U		0.56 J	1 U	1 U	
MW-603	4/28/2009	P	110	0.41 J	12	0.95 J	0.46 J		1.4	1 U	1 U	
MW-603	6/2/2010	P	170	1 U	11	0.8 J	0.4 J		1.4	1 U	1 U	
MW-603	6/6/2011	P	70	1 U	6.5	0.55 J	0.33 J		0.91 J	1 U	1 U	
MW-603	5/10/2012	P	27	1 U	3.6	0.4 J	1 U		0.41 J	1 U	1 U	
MW-603	5/15/2013	P	36	1 U	4	1 U	1 U		0.42 J	1 U	1 U	
MW-603	6/5/2014	P	15	1 U	2.3	1 U	1 U		1 U	1 U	1 U	
MW-603	6/16/2015	P	6.9	1 U	1.6	1 U	1 U		1 U	1 U	1 U	
MW-603	6/16/2016	P	25	1 U	3.2	1 U	1 U		1 U	1 U	1 U	0.2 U
MW-603	8/15/2018	P	62	1 U	4	1 U	1 U		1 U	1 U	1 U	

Appendix D-2. Historic Water Quality Data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-603	6/10/2020	P	50	1 U	2.8	1 U	1 U		1 U	1 U	1 U	
MW-603	6/18/2024	P	5	1 U	1 U	1 U	1 U	1 U		1 U	1 U	-
MW-606	12/10/2002	P	210	210	110	19	6.2 J	4.9 J	4.7 J	7.4 U	7.4 U	
MW-606	12/17/2002	P	270	272 J	120	20	10 U		10 U	10 U	10 U	
MW-606	5/8/2003	P	110	53	35	8	2 J		2 J	2 U	2 U	
MW-606	6/17/2016	P	22	9.5	6.7	1.5	1.9		1 U	1 U	1 U	1.1

U - Not detected at indicated reporting limit
B - Analyte detected in the associated blank
> - Concentration is greater than the value indicated
J - Estimated value
D - Analysis performed at a secondary dilution
P - Primary Sample
DUP - Duplicate Sample

Table D-3. Extraction well water quality data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
ERM-14R	1/30/1997	P	460	1400	520	130			58			
ERM-14R	2/27/1997	P	650	1600	340	160			NA			
ERM-14R	3/27/1997	P	670	1800	300	140			NA			
ERM-14R	4/22/1997	P	450	1400	280	170			59			
ERM-14R	5/15/1997	P	360	1400	190	170			U			
ERM-14R	6/10/1997	P	660	900 E	300	200			52			
ERM-14R	7/17/1997	P	280	1300	160	94			NA			
ERM-14R	8/18/1997	P	400	1000	220	110			U			
ERM-14R	9/10/1997	P	350	890	190	540			U			
ERM-14R	10/27/1997	P	240	1000	160	94			28			
ERM-14R	11/19/1997	P	660	1500	400	74			U			
ERM-14R	12/8/1997	P	1100	2100	680	190			U			
ERM-14R	1/9/1998	P	720	1300	510	110			U			
ERM-14R	2/9/1998	P	990	2000	640	130			U			
ERM-14R	3/13/1998	P	1500	2300	600	120			U			
ERM-14R	4/9/1998	P	920	1500	370	110			U			
ERM-14R	7/21/1998	P	950	1600	410	96			U			
ERM-14R	8/21/1998	P	1000	1800	410	56			U			
ERM-14R	9/9/1998	P	770	1200	300	60			U			
ERM-14R	10/13/1998	P	1000	1700	390	84			U			
ERM-14R	11/16/1998	P	850	1300	430	180			17			
ERM-14R	12/8/1998	P	870	1700	500	U			U			
ERM-14R	1/11/1999	P	700	1300	360	63 J			U			
ERM-14R	2/10/1999	P	970	2200	490	99			31			
ERM-14R	3/8/1999	P	460	1100	180	64			U			
ERM-14R	4/15/1999	P	280	510	120	56			U			
ERM-14R	5/14/1999	P	520	720	210	78			15			
ERM-14R	6/11/1999	P	550	1200	200	76			23			
ERM-14R	7/9/1999	P	820	1800	330	88			27			
ERM-14R	8/4/1999	P	670	1300	270	70			20			
ERM-14R	9/7/1999	P	420	770	170	51	18		12	20 U	40 U	
ERM-14R	8/24/2000	P	450	1000	140	64	50 U		50 U	50 U	100 U	
ERM-14R	10/24/2000	P	410	710	100	44	14		20 U	20 U	40 U	
ERM-14R	12/6/2000	P	350	620	110	47	14		20 U	20 U	40 U	
ERM-14R	8/28/2001	P	470	810	180	41	13		20 U	20 U	40 U	
ERM-14R	10/22/2001	P	530	800	180	44	13		20 U	20 U	40 U	
ERM-14R	12/19/2002	DUP	150	423	75	26	13		10 U	10 U	10 U	
ERM-14R	12/19/2002	P	155	452	84	29	14		10	10 U	10 U	
ERM-14R	5/7/2003	P	110	120	36	13	11		7	2 U	2 U	
ERM-14R	11/6/2014	P	5.2	12	1	1	4.7		0.98 J	1 U	1 U	0.396
ERM-14R	6/16/2015	P	1.1	3.7	1.1	1 U	4.1		1 U	1 U	1 U	0.386
ERM-14R	9/18/2015	P										0.505
ERM-14R	1/21/2016	P										0.2 U
ERM-14R	6/24/2016	P	5	9.8	1.5	1.4	5		1 U	1 U	1 U	0.543
ERM-14R	8/21/2018	P	190	300 D	9.9	46	21		2.9	1 U	1 U	0.909
ERM-14R	6/11/2020	P	5.8	12	1.1	2.3	7.4		1.3	1 U	1 U	0.477
ERM-14R	6/17/2024	P	4.2	9	1.2	2.5	9.9	2.2		1 U	1 U	1 U
JTB-402	9/8/1994	P	500 U	5700	1000	1000	500 U	500 U		500 U	1000 U	
JTB-402	10/10/1994	P	500 J	17000	6100	1900	625 U	625 U		625 U	1250 U	
JTB-402	11/30/1994	P	500 U	17000	3700	1700	500 U	500 U		500 U	1000 U	
JTB-402	3/3/1995	P	5 U	22000	2200	2100	5 U	5 U		5 U	10 U	
JTB-402	6/7/1995	P	18	480	160	47	13 U	13 U		13 U	25 U	
JTB-402	9/13/1995	P	500 U	18000	3200	1600	500 U	500 U		500 U	1000 U	
JTB-402	12/15/1995	P	130 J	14000	1400	1000	625 U	625 U		625 U	1250 U	
JTB-402	3/11/1996	P	230 J	17000	2800	1600	250 U		250 U	250 U	250 U	
JTB-402	9/9/1996	P	440	8900	2600	660	200 U		200 U	200 U	200 U	
JTB-402	3/11/1997	P	560	8600	2400	660	100 U		100 U	100 U	100 U	
JTB-402	9/12/1997	P	420	7600	1600	330	100 U		100 U	100 U	100 U	
JTB-402	3/14/1998	P	2300	1200	1600	130	50 U		50 U	50 U	50 U	
JTB-402	9/19/1998	P	54	180	57	22	5 U		5 U	5 U	5 U	
JTB-402	3/11/1999	P	250 U	6000	630	350	250 U		250 U	250 U	250 U	
JTB-402	9/9/1999	P	340	4800 E	1400	180	50 U		50 U	50 U	50 U	
JTB-402	4/1/2000	P	810	6300	570	260	200 U		200 U	200 U	200 U	
JTB-402	3/29/2001	P	960	3400	510	160	100 U		100 U	100 U	200 U	
JTB-402	9/23/2001	P	1900	1200	1100	70	50 U		50 U	50 U	100 U	
JTB-402	12/19/2002	P	687	3330	846	160	100 U		100 U	100 U	100 U	
JTB-402	5/7/2003	P	1600	1900	900	110	50 U		50 U	50 U	50 U	
JTB-402	11/13/2014	P	320	400	26	36	22		5.7	2.5 U	2.5 U	0.507
JTB-402	6/16/2015	DUP										0.463
JTB-402	6/16/2015	P	330	1200 D	20	99	60		8.5	2.5 U	2.5 U	0.492
JTB-402	9/11/2015	DUP										0.823
JTB-402	9/11/2015	P										0.763
JTB-402	1/22/2016	DUP										0.252
JTB-402	1/22/2016	P										0.253
JTB-402	6/22/2016	P	370	1000	26	110	65		10 U	10 U	10 U	0.655
JTB-402	8/21/2018	P	130	16	27	2.8	1.4		1.3	1 U	1 U	0.222 B
JTB-402	6/11/2020	P	280 D	650 D	9.6	81	21		3.2	1 U	1 U	0.383
JTB-402	6/17/2024	P	228	349	13.4	76	10	1.6		1 U	1 U	1 U
JTB-404	9/8/1994	P	4800	160 J	1100	250 U	250 U	250 U		250 U	500 U	
JTB-404	10/10/1994	P	4700	500 U	1400	500 U	500 U	500 U		500 U	1000 U	
JTB-404	11/30/1994	P	2900	220	1200	200 U	200 U	200 U		200 U	400 U	
JTB-404	3/3/1995	P	3800	210	1300	100 U	100 U	100 U		100 U	200 U	
JTB-404	6/7/1995	P	3000	100	1100	100 U	100 U	100 U		100 U	200 U	
JTB-404	9/13/1995	P	3400	100 U	791	100 U	100 U	100 U		100 U	200 U	
JTB-404	12/15/1995	P	2000	99 J	600	125 U	125 U	125 U		125 U	250 U	
JTB-404	3/11/1996	P	2300	45	630	19 J	25 U		14 J	25 U	25 U	
JTB-404	9/9/1996	P	2200	32 J	430	50 U	50 U		50 U	50 U	50 U	

Table D-3. Extraction well water quality data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
JTB-404	3/11/1997	P	2100	100 U	430	100 U	100 U		100 U	100 U	100 U	
JTB-404	9/12/1997	P	1300	20 U	240	20 U	20 U		20 U	20 U	20 U	
JTB-404	3/14/1998	P	1200	10 U	220	10 U	10 U		10 U	10 U	10 U	
JTB-404	9/8/1998	P	2200	25 U	270	25 U	25 U		86	25 U	25 U	
JTB-404	9/9/1999	P	870	25 U	170	25 U	25 U		25 U	25 U	25 U	
JTB-404	4/1/2000	P	1000	50 U	150	50 U	50 U		50 U	50 U	50 U	
JTB-404	12/19/2002	P	1120	10 U	178	10 U	10 U		10 U	10 U	10 U	
JTB-404	5/7/2003	DUP	1000	20 U	150	20 U	20 U		20 U	20 UJ	20 U	
JTB-404	5/7/2003	P	980	20 U	140	20 U	20 U		20 U	20 UJ	20 U	
JTB-404	11/21/2014	DUP	540	5 U	14	5 U	5 U		5 U	5 U	5 U	0.409
JTB-404	11/21/2014	P	560	5 U	16	5 U	5 U		5 U	5 U	5 U	0.419
JTB-404	6/16/2015	P	750	5 U	13	5 U	5 U		5 U	5 U	5 U	0.2 U
JTB-404	9/11/2015	P										0.236
JTB-404	1/22/2016	P	550	5 U	5.6	5 U	5 U		5 U	5 U	5 U	0.2 U
JTB-404	6/11/2020	DUP										0.0722
JTB-404	6/11/2020	P	610	5 U	6.1	5 U	5 U		5 U	5 U	5 U	0.0704
JTB-404	6/17/2024	P	530	1 U	4.8	1 U	1 U	1 U		1 U	1 U	1 U
JTB-404	6/17/2024	DUP	491	1 U	4.7	1 U	1 U	1 U		1 U	1 U	1 U
JTB-405	9/8/1994	P	2400	280	1200	250 U	250 U	250 U		250 U	500 U	
JTB-405	10/10/1994	P	2400	250	940	125 U	125 U	125 U		125 U	250 U	
JTB-405	11/30/1994	P	1300	180	640	100 U	100 U	100 U		100 U	200 U	
JTB-405	3/3/1995	P	1900	180	660	50 U	50 U	50 U		50 U	100 U	
JTB-405	6/7/1995	P	1700	180	680	47 J	50 U	50 U		50 U	100 U	
JTB-405	9/13/1995	P	1300	110	390	50 U	50 U	50 U		50 U	100 U	
JTB-405	12/15/1995	P	700	76	260	20 J	25 U	8 J		25 U	50 U	
JTB-405	3/11/1996	P	650	73	250	24	10 U		8 J	10 U	10 U	
JTB-405	9/9/1996	P	410	41	140	13	10 U		5 J	10 U	10 U	
JTB-405	3/11/1997	P	320	31	110	10 U	10 U		10 U	10 U	10 U	
JTB-405	9/12/1997	DUP	3400	910	940	50 U	50 U		50 U	50 U	50 U	
JTB-405	9/12/1997	P	3500	1300	1100	50 U	50 U		50 U	50 U	50 U	
JTB-405	3/14/1998	P	210	16	67	9	5 U		5 U	5 U	5 U	
JTB-405	9/8/1998	P	230	18	70	8	4 U		6	4 U	4 U	
JTB-405	3/11/1999	P	160	5	57	5 U	5 U		5 U	5 U	5 U	
JTB-405	9/9/1999	P	28	2.6	8.2	1 U	1 U		1 U	1 U	1 U	
JTB-405	4/1/2000		210	20	50	5 U	5 U		40	5 U	5 U	
JTB-405	12/19/2002	P	78	3	25	2	1 U		2	1 U	1 U	
JTB-405	5/7/2003		45	1 U	13	1	1 U		0.8 J	1 U	1 U	
JTB-405	11/21/2014	P	1.4	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
JTB-405	6/16/2015	P	1 U	1 U	1 U	1 U	1 U		1 U	1 U	1 U	0.2 U
JTB-405	1/22/2016	P										0.2 U
MW/EW-N	12/19/2002	P	267	10 U	56	10 U	10 U	10 U		10 U	10 U	
MW/EW-N	5/7/2003	P	240	5 U	43	5 U	5 U	7		5 U	5 U	
MW/EW-N	11/6/2014	P	12	1 U	1.3	1 U	1 U	0.31 J		1 U	1 U	0.124 J
MW/EW-N	7/1/2015	P	13	1 U	1.4	1 U	1 U	1 U		1 U	1 U	0.2 U
MW/EW-N	9/18/2015	P										0.702
MW/EW-N	1/21/2016	P										0.2 U
MW/EW-N	6/24/2016	P	35	1 U	2.4	1 U	1 U	1 U		1 U	1 U	0.2 U
MW/EW-N	8/21/2018	P	53	1 U	2.2	1 U	1 U	1 U		1 U	1 U	0.14 B
MW/EW-N	6/11/2020	P	69	1 U	2	1 U	1 U	1 U		1 U	1 U	0.119
MW/EW-N	6/17/2024	P	38	1 U	1	1 U	1 U	1 U		1 U	1 U	1 U
MW/EW-S	12/19/2002	P	759	489	305	82	18	16		10 U	10 U	
MW/EW-S	5/7/2003	P	710	200	210	68	11 J	20 U		20 U	20 U	
MW/EW-S	11/21/2014	P	51	15	14	3.8	3.4	2.6		1 U	1 U	2.34
MW/EW-S	6/16/2015	P	74	2.8	16	2.2	2.5	2.8		1 U	1 U	2.11
MW/EW-S	9/11/2015	P										1.99
MW/EW-S	1/22/2016	P										2.9
MW/EW-S	6/17/2016	P	290 D	18	18	3.9	3.3	3.3		1 U	1 U	1.95
MW/EW-S	6/1/2017	P	110	20	14	4.1	5.3	3		1 U	1 U	2.27
MW/EW-S	6/5/2017	DUP	96	18	18	4.5	5.9	3.7		1 U	1 U	2.72
MW/EW-S	6/5/2017	P	95	19	9.5	4.4	6	3.9		1 U	1 U	2.53
MW/EW-S	8/21/2018	P	300	130	20	19	9	3.3		2 U	2 U	1.99
MW/EW-S	6/26/2019	P	200	97	16	6	6.3	2.9		1 U	1 U	1.66
MW/EW-S	6/11/2020	P	130	23	8	4.5	2.8	1.8		1 U	1 U	1.88
MW/EW-S	6/30/2021	P	183	15.1	10.9	4.4	3.1	3		1 U	1 U	1.7
MW/EW-S	7/6/2022	P	157	197.0	15.3	41.6	10.6	3			1 U	1.7
MW/EW-S	6/13/2023	P	86.4	18.7	9.9	5.6	2.8		2.1		1 U	1.5
MW/EW-S	12/5/2023	P	66.1	8.3	7.9	2.9	2.6		2.0	1 U	1 U	1.4
MW/EW-S	6/17/2024	P	98.5	8.4	8.5	3.1	2	2.2		1 U	1 U	1 U
MW/EW-S	11/20/2024	P	81.9	17.1	9.2	6.1	2.4	2.2		1 U	1 U	1.8
MW-604	12/19/2002	P	594	10	161	10 U	10 U	11		10 U	10 U	
MW-604	5/7/2003	P	510	10 U	140	10 U	10 U	8 J		10 U	10 U	
MW-604	11/6/2014	P	44	1 U	5.3	1 U	1 U	0.93 J		1 U	1 U	0.413
MW-604	6/16/2015	P	27	1 U	4.6	1 U	1 U	1 U		1 U	1 U	0.335
MW-604	9/11/2015	P										0.444
MW-604	1/22/2016	P										0.676
MW-604	6/17/2016	P	83	1.1	7	1 U	1 U	1.6		1 U	1 U	0.442
MW-604	8/21/2018	P	320 D	1 U	13	1 U	1 U	2.4		1 U	1 U	0.506
MW-604	6/11/2020	P	160	1	4	1 U	1 U		1 U	1 U	1 U	0.778
MW-604	6/17/2024	P	180	1 U	6	1 U	1 U	1.6		1 U	1 U	1 U
MW-605	12/19/2002	P	491	186	249	60	16		19	10 U	10 U	
MW-605	5/7/2003	P	270	58	120	26	6		9	5 U	5 U	
MW-605	11/6/2014	P	18	1.1	5.8	0.77 J	0.62 J		0.98 J	1 U	1 U	1.09
MW-605	6/16/2015	P	42	1.5	9.4	1.3	1 U		1.4	1 U	1 U	1.68
MW-605	9/11/2015	P										1.78
MW-605	1/22/2016	P										1.99
MW-605	6/17/2016	P	25	1.1	5.6	1 U	1 U		1 U	1 U	1 U	1.24
MW-605	5/4/2017	P	41	0.4 J	27	1.3	0.42 J		8.1	1 U	0.52 J	0.858

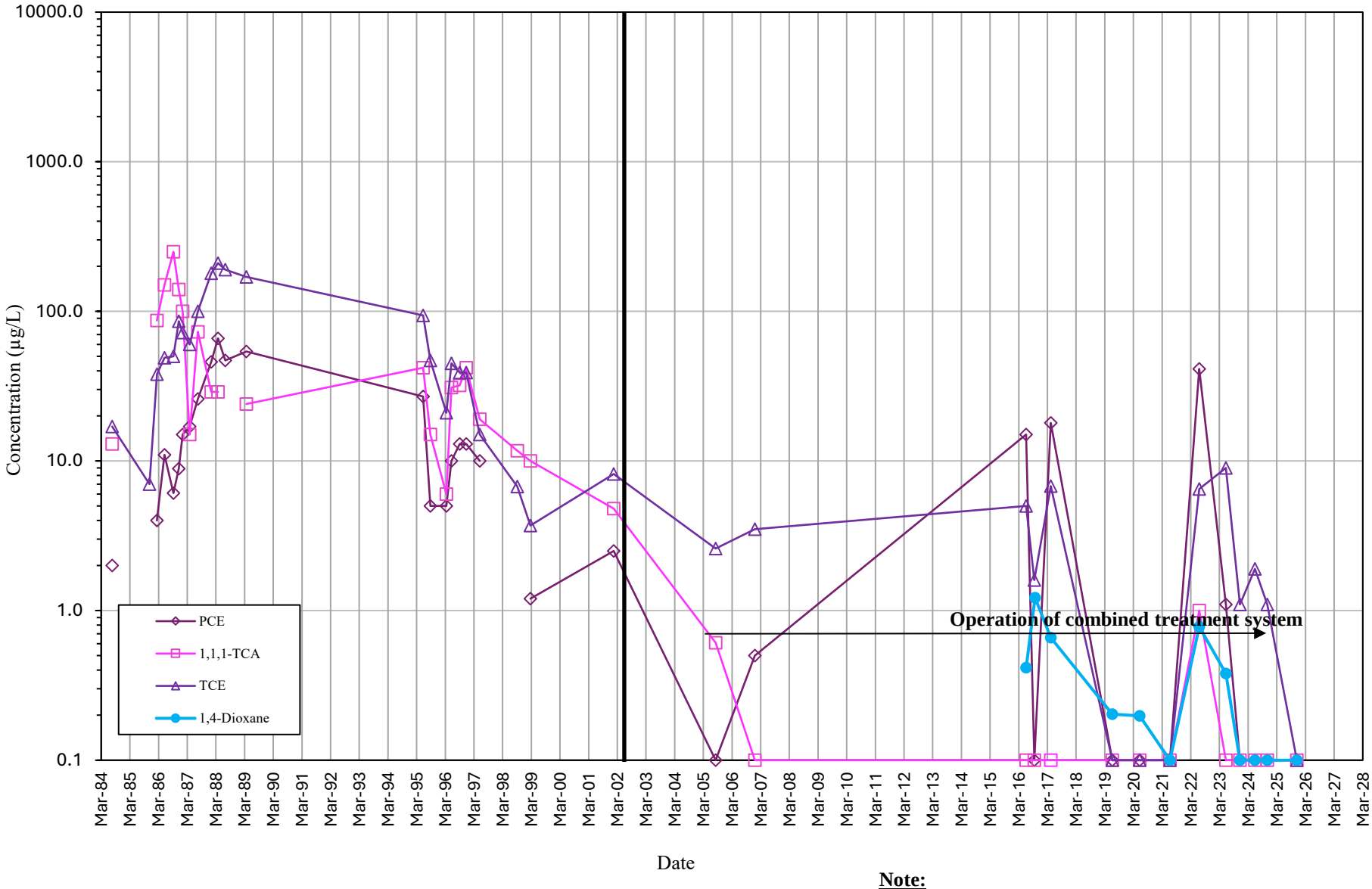
Table D-3. Extraction well water quality data

Location	Date	QA Type	PCE	1,1,1- TCA	TCE	1,1-DCE	1,1-DCA	1,2-DCE(total)	cis-1,2- DCE	1,2-DCA	Vinyl Chloride	1,4-Dioxane
MW-605	6/7/2017	P	77	2.5	9.4	1.2	1.6		2.2	1 U	1 U	1.68
MW-605	8/21/2018	P	49	5.2	6	1.3	1.1		1	1 U	1 U	1.48
MW-605	6/26/2019	P	46	8.9	5.7	1.5	1.5		1.2	1 U	1 U	1.04
MW-605	6/11/2020	P	80	12	5.7	2.4	1.4		1.2	1 U	1 U	1.28
MW-605	6/30/2021	P	265	93	8.2	13.9	4.6		1.5	1 U	1 U	0.4 U
MW-605	7/6/2022	P	46	11	6.8	2.7	1.8		1.4		1 U	1.3
MW-605	6/13/2023	P	25.4	5.2	4.5	1.5	1 U		1 U		1 U	0.95
MW-605	12/5/2023	P	20.1	2.9	3.9	1	1 U		1 U	1 U	1 U	0.93
MW-605	6/17/204	P	18.4	1.8	3.2	1 U	1 U	1 U		1 U	1 U	1 U
MW-605	11/20/2024	P	28.6	2.3	5.6	1.1	1 U	1.3		1 U	1 U	2.1
PW-503	9/8/1994	P	22000	2000 U	2000 U	2000 U	2000 U	2000 U		2000 U	4000 U	
PW-503	10/10/1994	P	13000	500 U	1200	500 U	500 U	500 U		500 U	1000 U	
PW-503	11/30/1994	P	6300	790	2000	250 U	250 U	250 U		250 U	500 U	
PW-503	3/3/1995	P	7500	1700	2300	250 U	250 U	250 U		250 U	500 U	
PW-503	6/7/1995	P	6600	780	2200	250 U	250 U	250 U		250 U	500 U	
PW-503	9/13/1995	P	8700	680	2500	250 U	250 U	250 U		250 U	500 U	
PW-503	12/15/1995	P	7000	1100	1900	250 U	250 U	250 U		250 U	500 U	
PW-503	3/11/1996	P	21000	580	1900	250 U	250 U		250 U	250 U	250 U	
PW-503	6/7/1996	P	8500	200 U	950	200 U	200 U		200 U	200 U	200 U	
PW-503	9/9/1996	P	6800	130 J	1000	200 U	200 U		200 U	200 U	200 U	
PW-503	3/11/1997	P	3900	300	1100	100 U	100 U		100 U	100 U	100 U	
PW-503	9/12/1997	P	4400	320	1100	100 U	100 U		100 U	100 U	100 U	
PW-503	3/14/1998	P	3400	100 U	130	100 U	100 U		100 U	100 U	100 U	
PW-503	9/8/1998	P	5100	50 U	140	50 U	50 U		280	50 U	110	
PW-503	3/11/1999	P	4600	740	810	200 U	200 U		200 U	200 U	200 U	
PW-503	9/9/1999	P	2800	250	790	50 U	50 U		50 U	50 U	50 U	
PW-503	4/1/2000	P	2800	650	580	100 U	100 U		100 U	100 U	100 U	
PW-503	3/29/2001	P	4000	100 U	640	100 U	100 U	100 U		100 U	200 U	
PW-503	12/19/2002	P	1330	47	422	10 U	10 U	11		10 U	10 U	
PW-503	11/21/2014	P	600	350	36	20	20	5 U		5 U	5 U	0.569
PW-503	6/16/2015	P	440	37	23	5.6	5.7	2.5 U		2.5 U	2.5 U	0.485
PW-503	9/11/2015	P										0.581
PW-503	1/22/2016	P										0.37
PW-503	6/24/2016	P	580 D	37	24	5.1	3.8	2.5 U		2.5 U	2.5 U	0.386
PW-503	8/21/2018	DUP	140	16	27	2.6	1.4	1.2		1 U	1 U	0.224 B
PW-503	8/21/2018	P	140	15	27	2.9	1.4	1.1		1 U	1 U	0.198 B
PW-503	6/11/2020	P	400 D	120	11	16	4.6	1.6		1 U	1 U	0.34
PW-503	6/17/2024	P	290	4	5	1 U	1 U	1 U		1 U	1 U	1 U

U - Not detected at indicated reporting limit B - Analyte detected in the associated blank

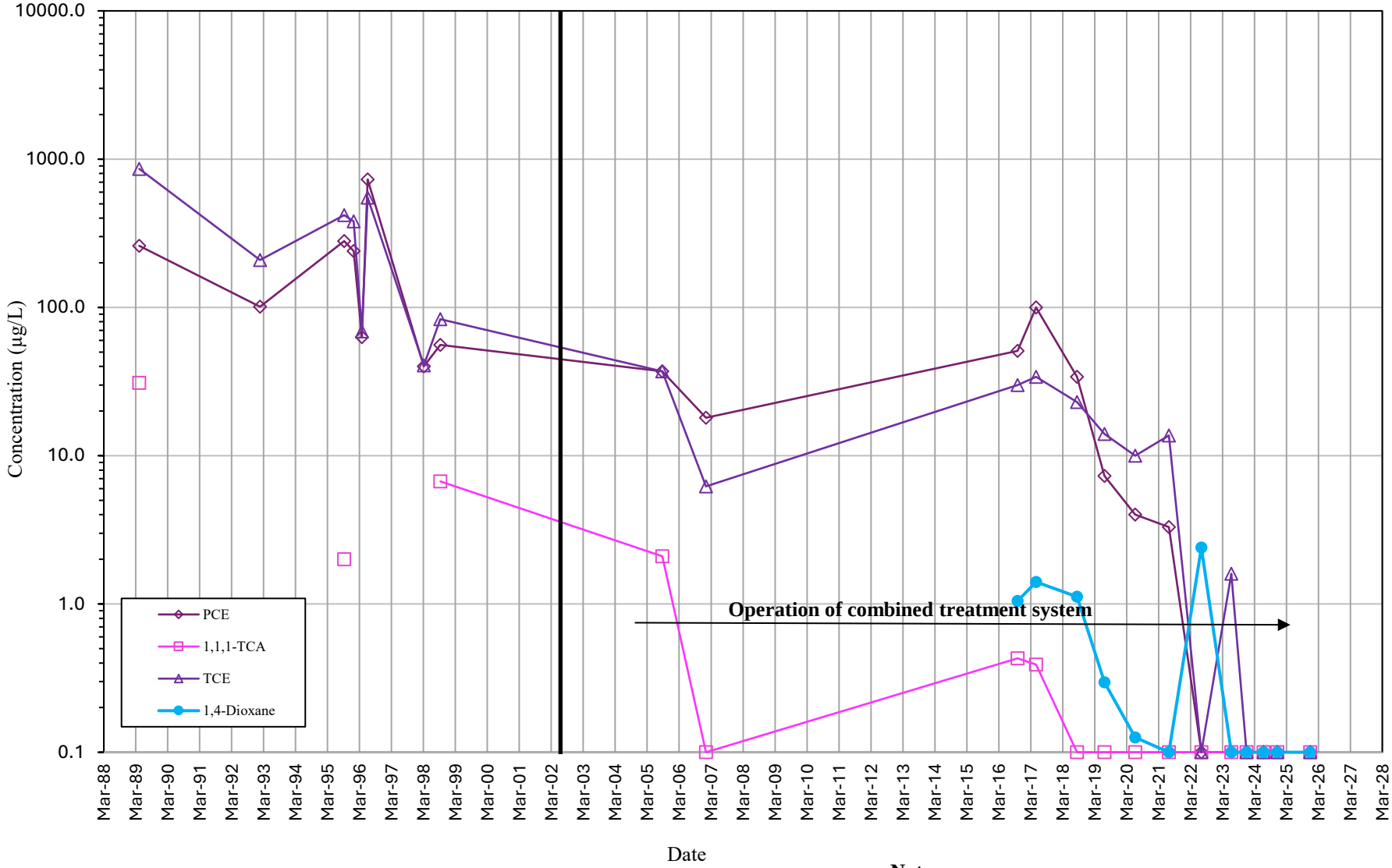
APPENDIX E

TIME CONCENTRATION PLOTS



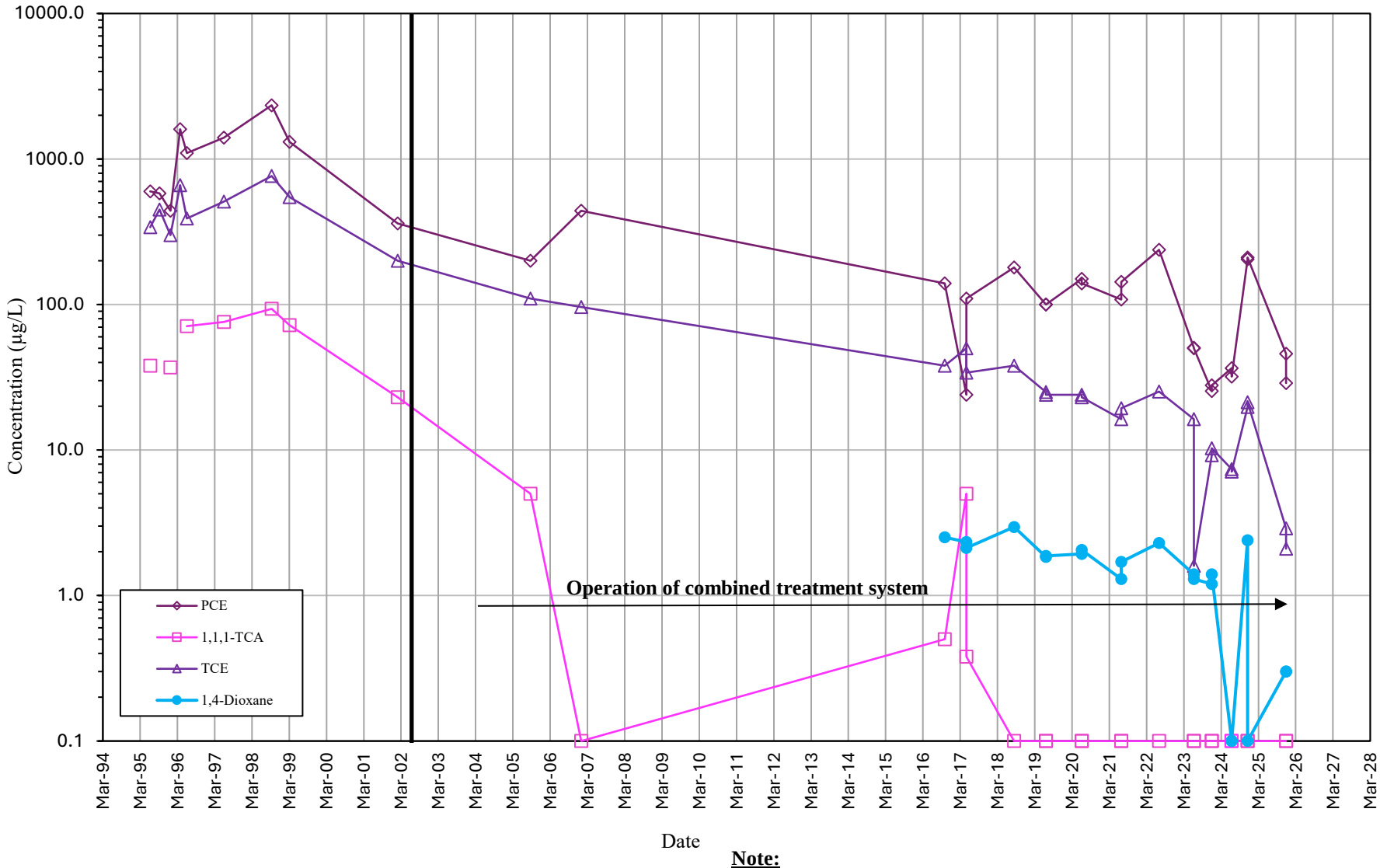
VOC Concentration at Unconsolidated Deposit Monitoring Well B-105B

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 154.1
Bottom of screen elevation (NGVD) = 144.1



VOC Concentration at Shallow Bedrock Monitoring Well B-602

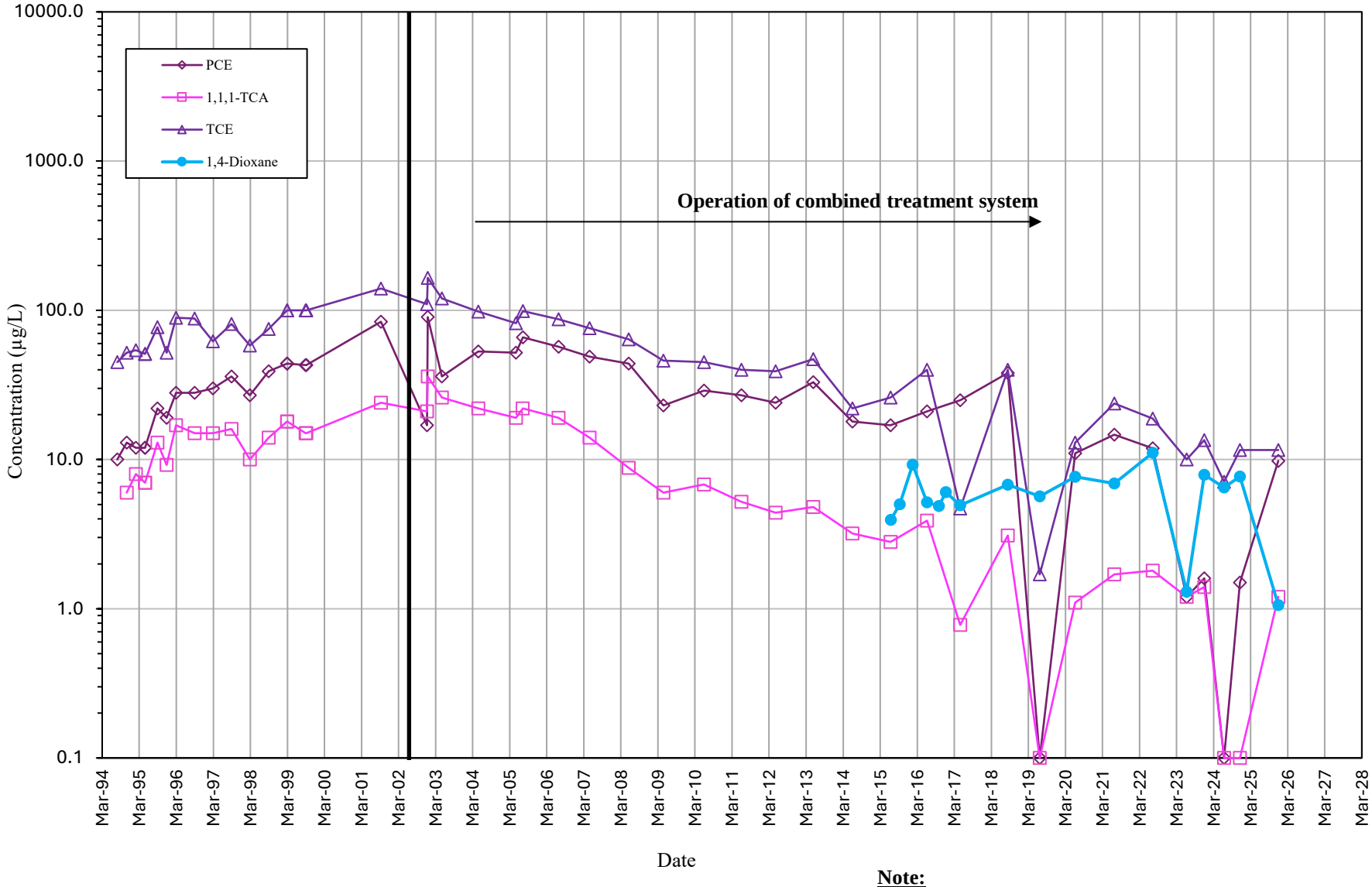
Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 125.7
Bottom of screen elevation (NGVD) = 115.7



VOC Concentration at Shallow Bedrock Monitoring Well CES-11D

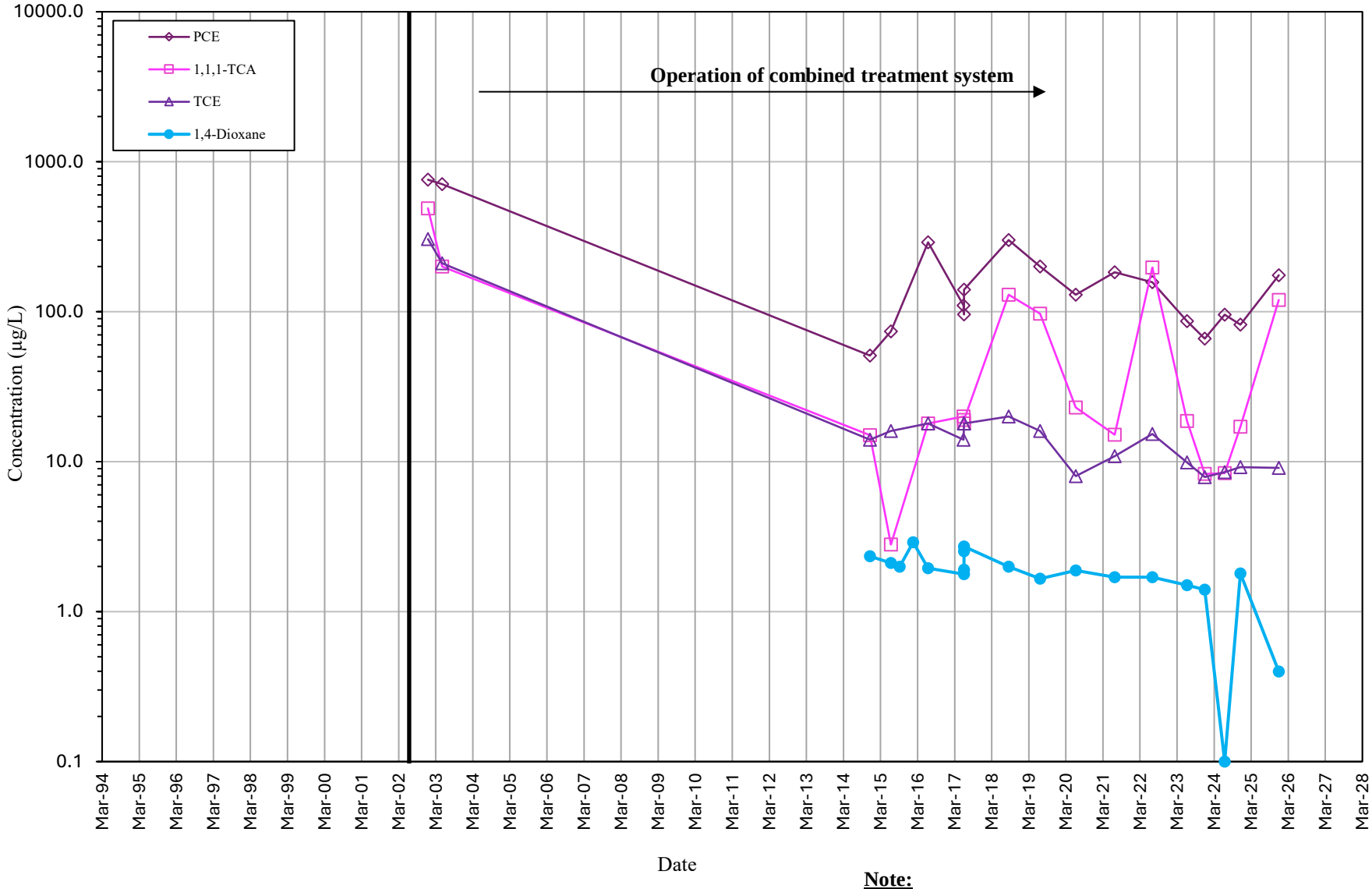
Note:

A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 144.4
Bottom of screen elevation (NGVD) = 134.4
July Samples were taken at CES-10D due to CES-11D being covered with fill material from site owner.



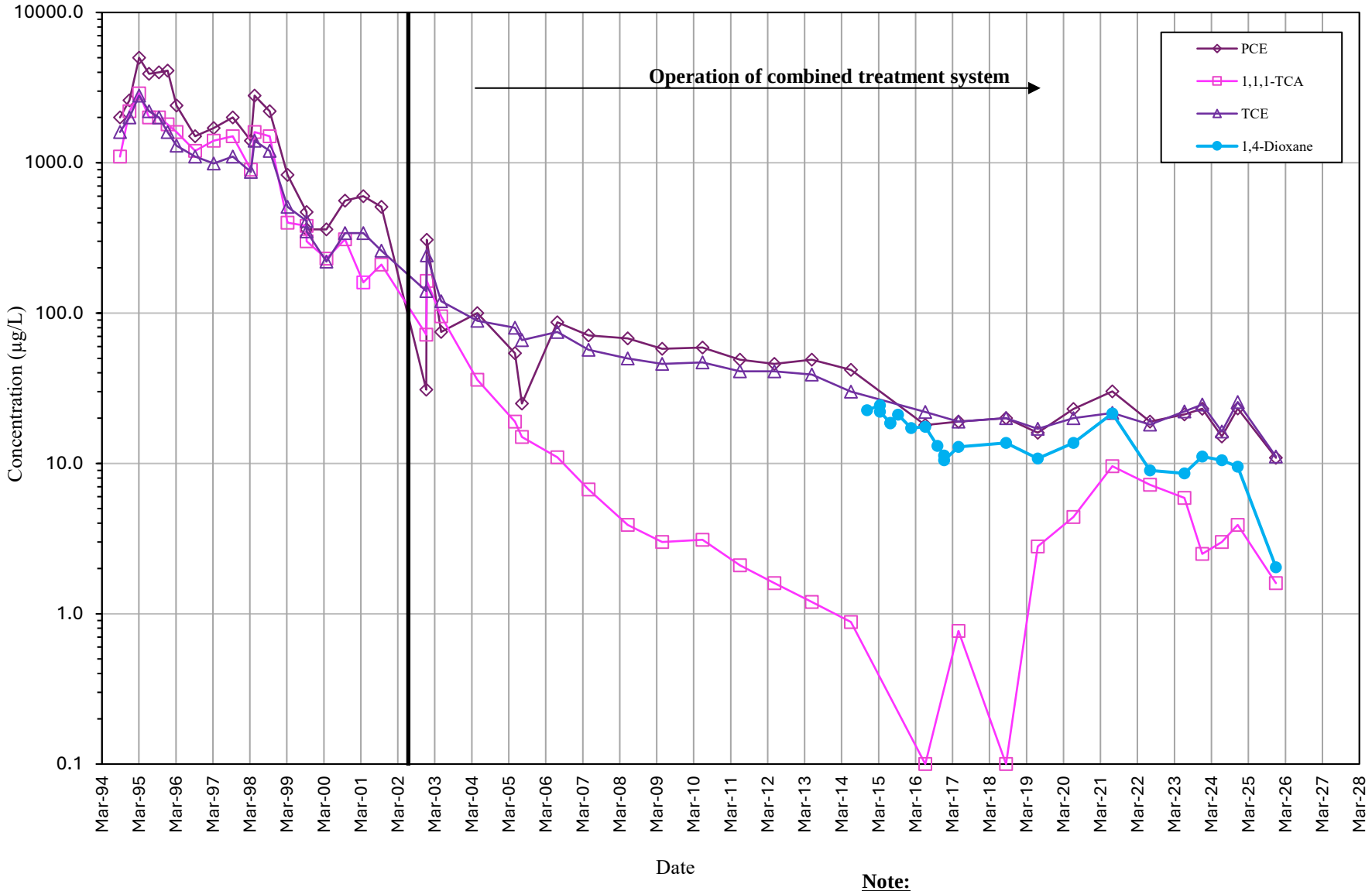
VOC Concentration at Bedrock Monitoring Well ERM-12M

Note:
A concentration of 0.1 µg/L was assumed for non-detects.
Refer to Historic Water Quality Appendix for Reporting Limits.
Top of screen elevation (NGVD) = 122.15
Bottom of screen elevation (NGVD) = 113.15



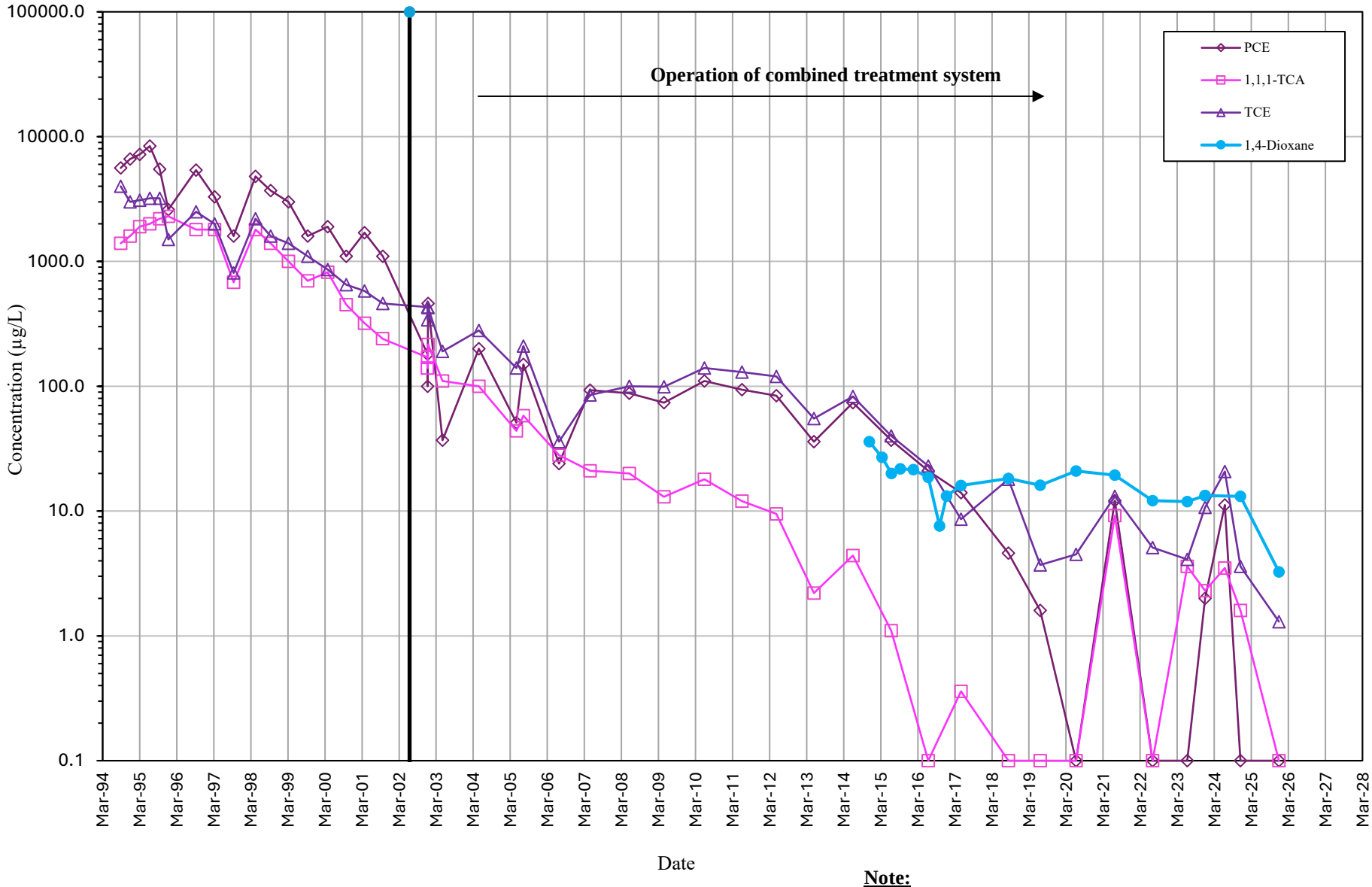
VOC Concentration at Bedrock Extraction Well MW/EW-S

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 160.8
Bottom of screen elevation (NGVD) = 50.8



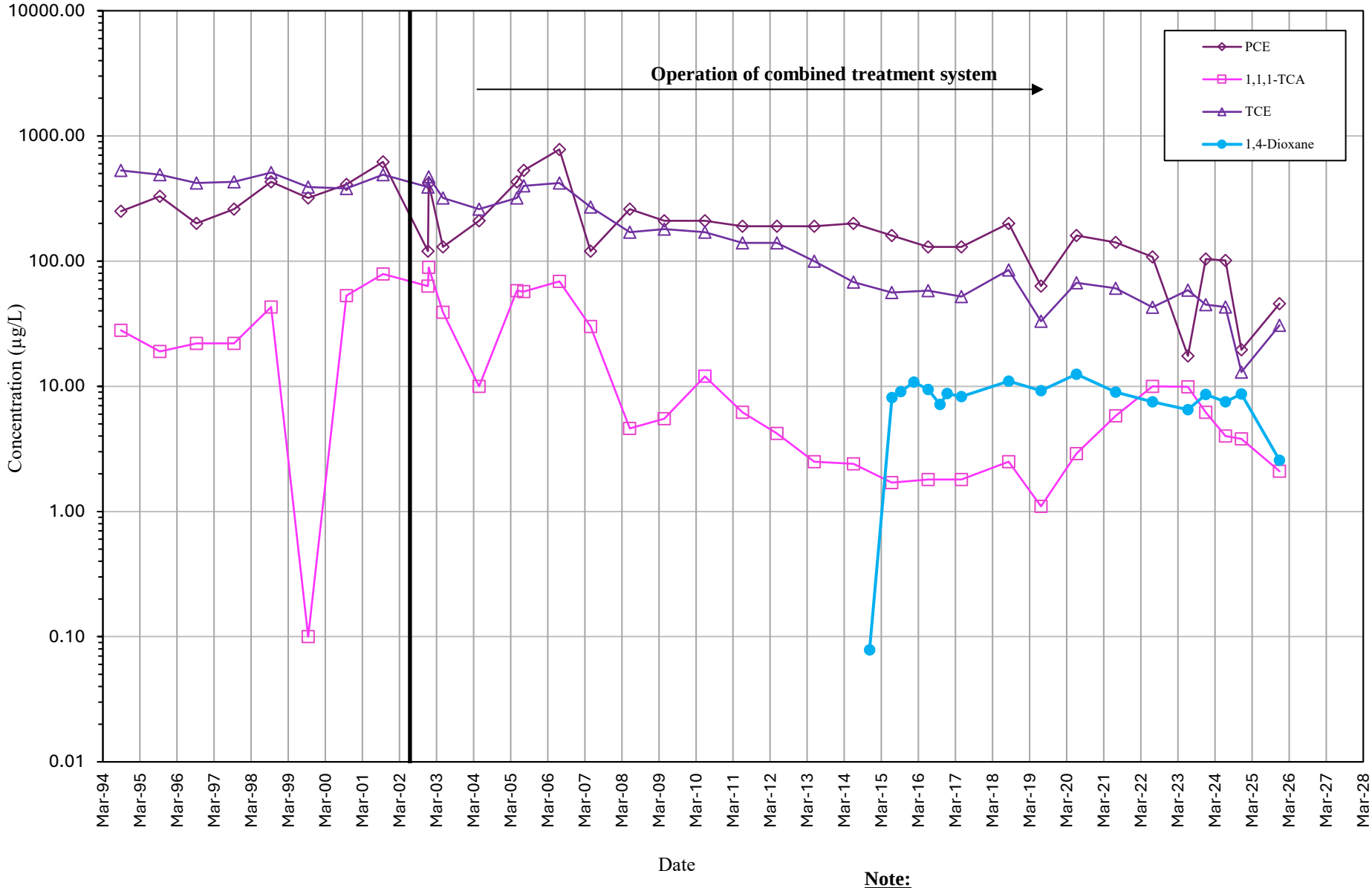
VOC Concentration at Bedrock Monitoring Well MW-203B

Note:
A concentration of 0.1 µg/L was assumed for non-detects.
Refer to Historic Water Quality Appendix for Reporting Limits.
Top of screen elevation (NGVD) = 149.9
Bottom of screen elevation (NGVD) = 139.9



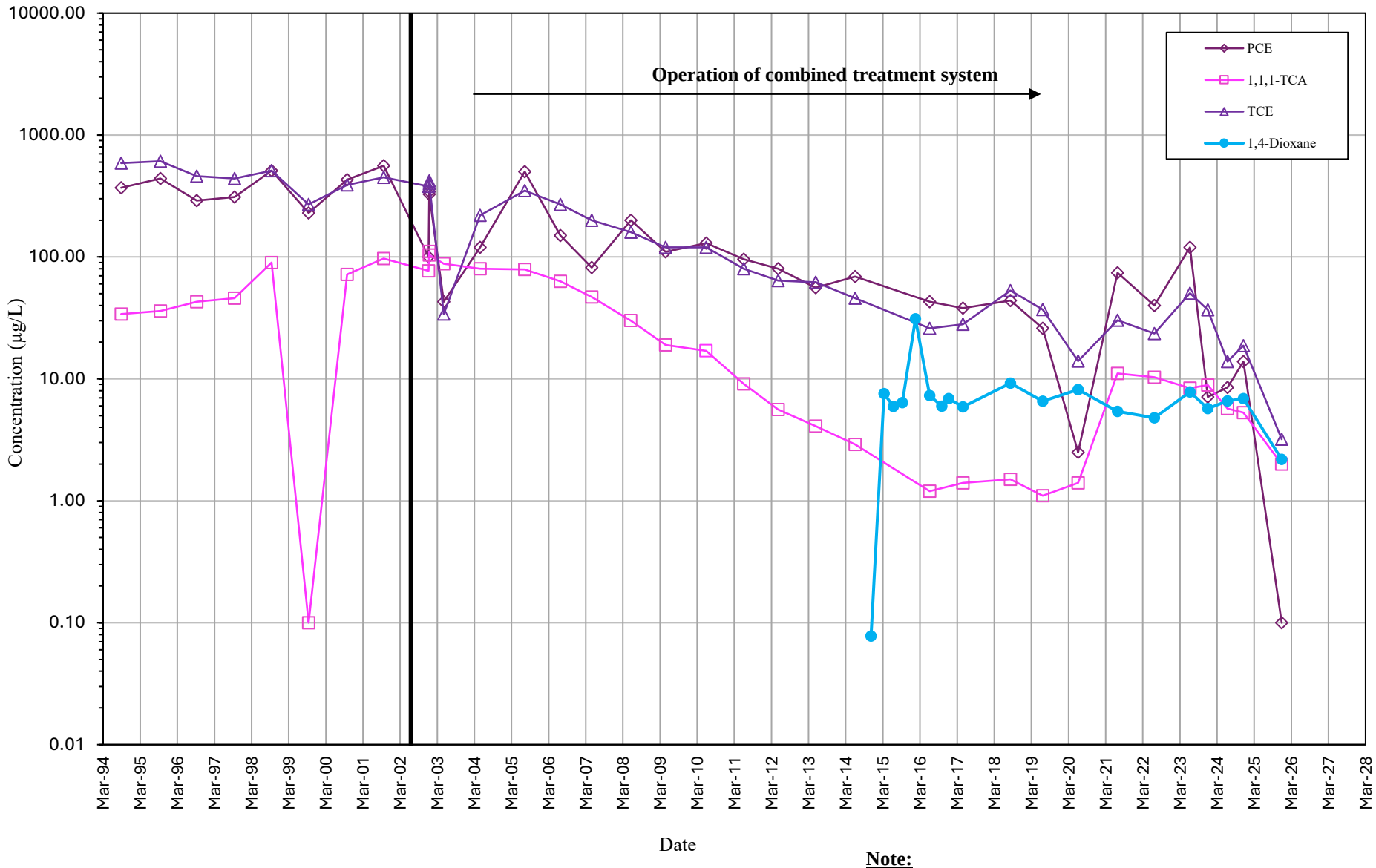
VOC Concentration at Bedrock Monitoring Well MW-203A

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 118.4
Bottom of screen elevation (NGVD) = 108.4



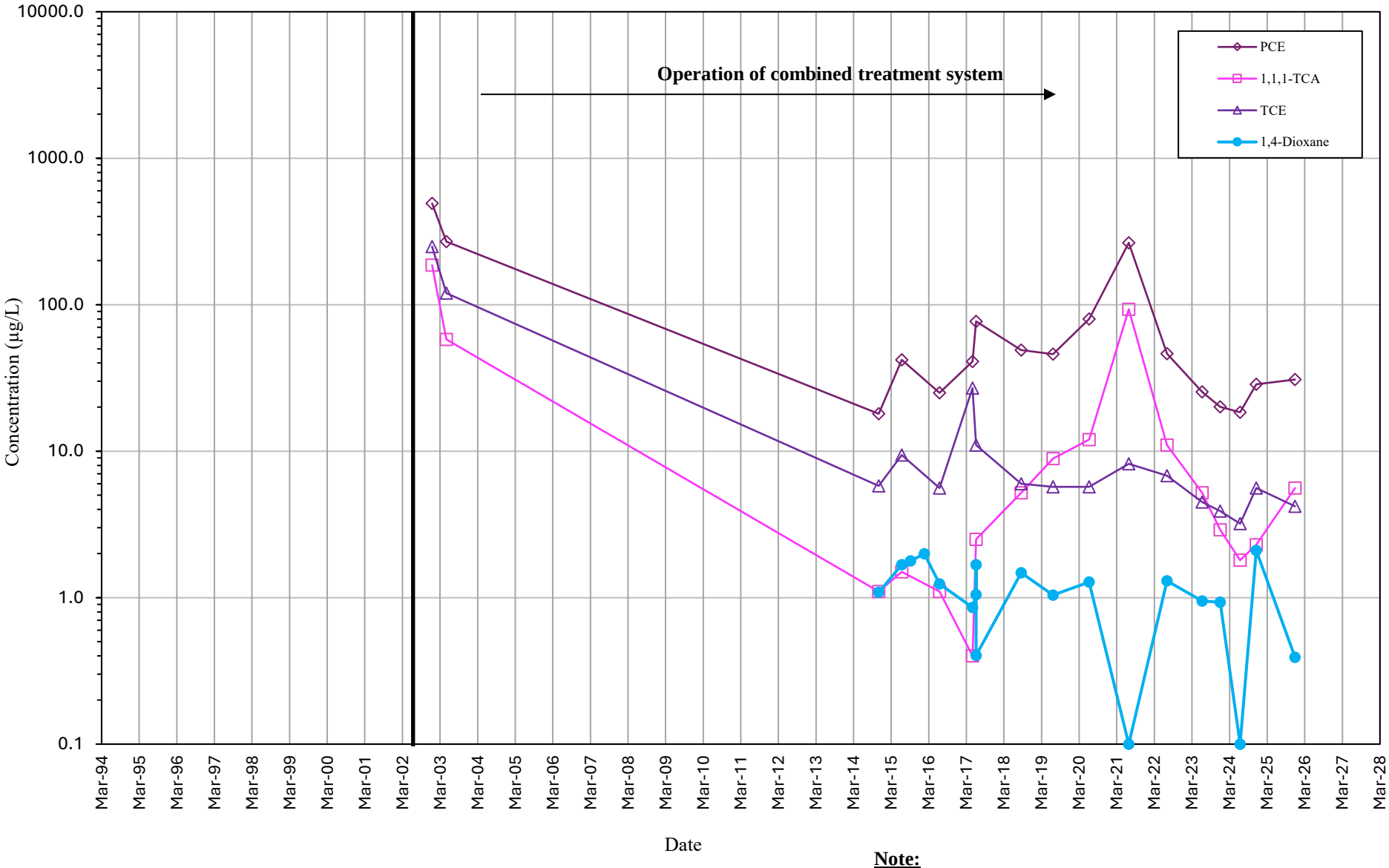
VOC Concentration at Bedrock Monitoring Well MW-204B

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 104.5
Bottom of screen elevation (NGVD) = 112.5



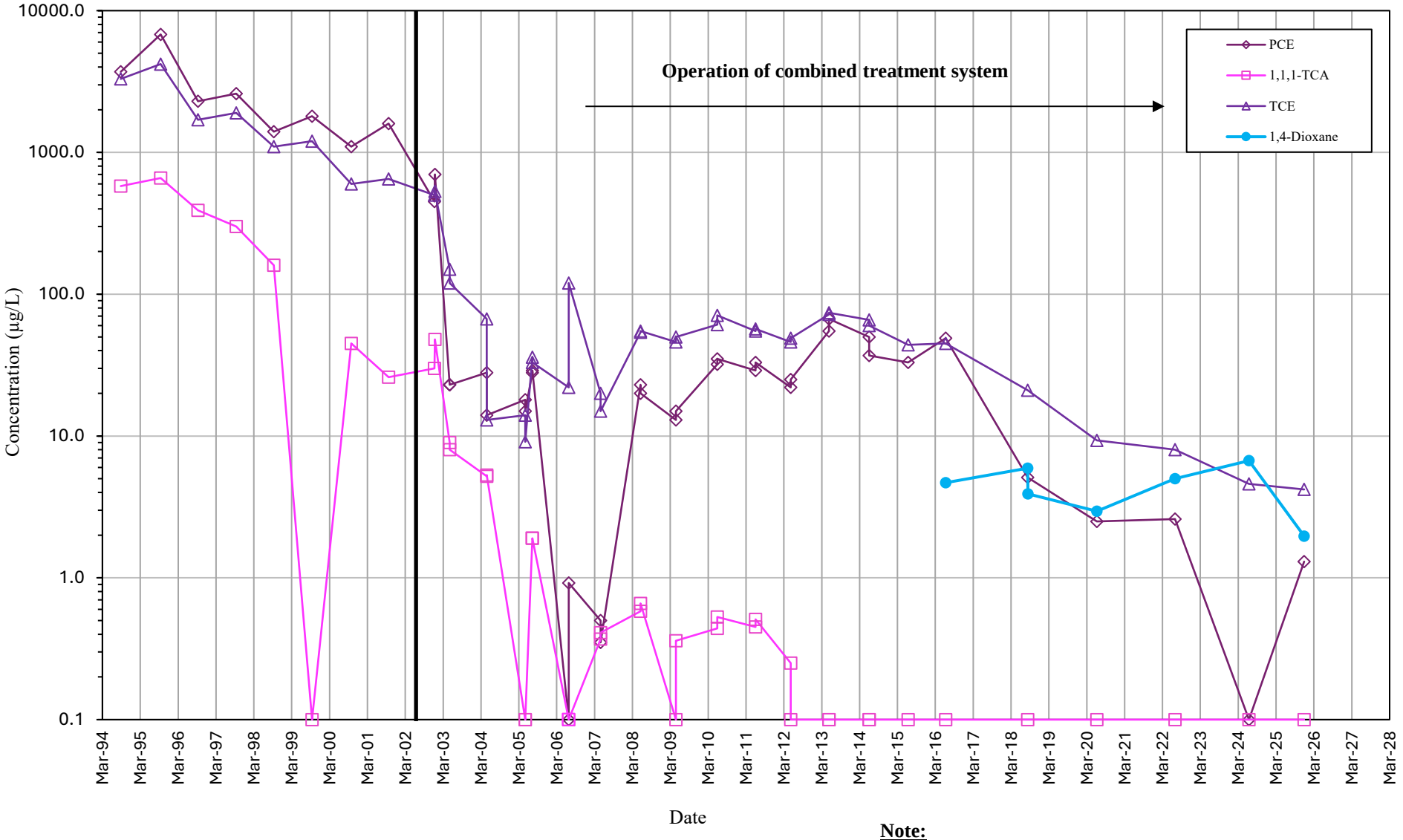
VOC Concentration at Bedrock Monitoring Well MW-204A

Note:
A concentration of 0.1 µg/L was assumed for non-detects.
Refer to Historic Water Quality Appendix for Reporting Limits.
Top of screen elevation (NGVD) = 83.09
Bottom of screen elevation (NGVD) = 73.09



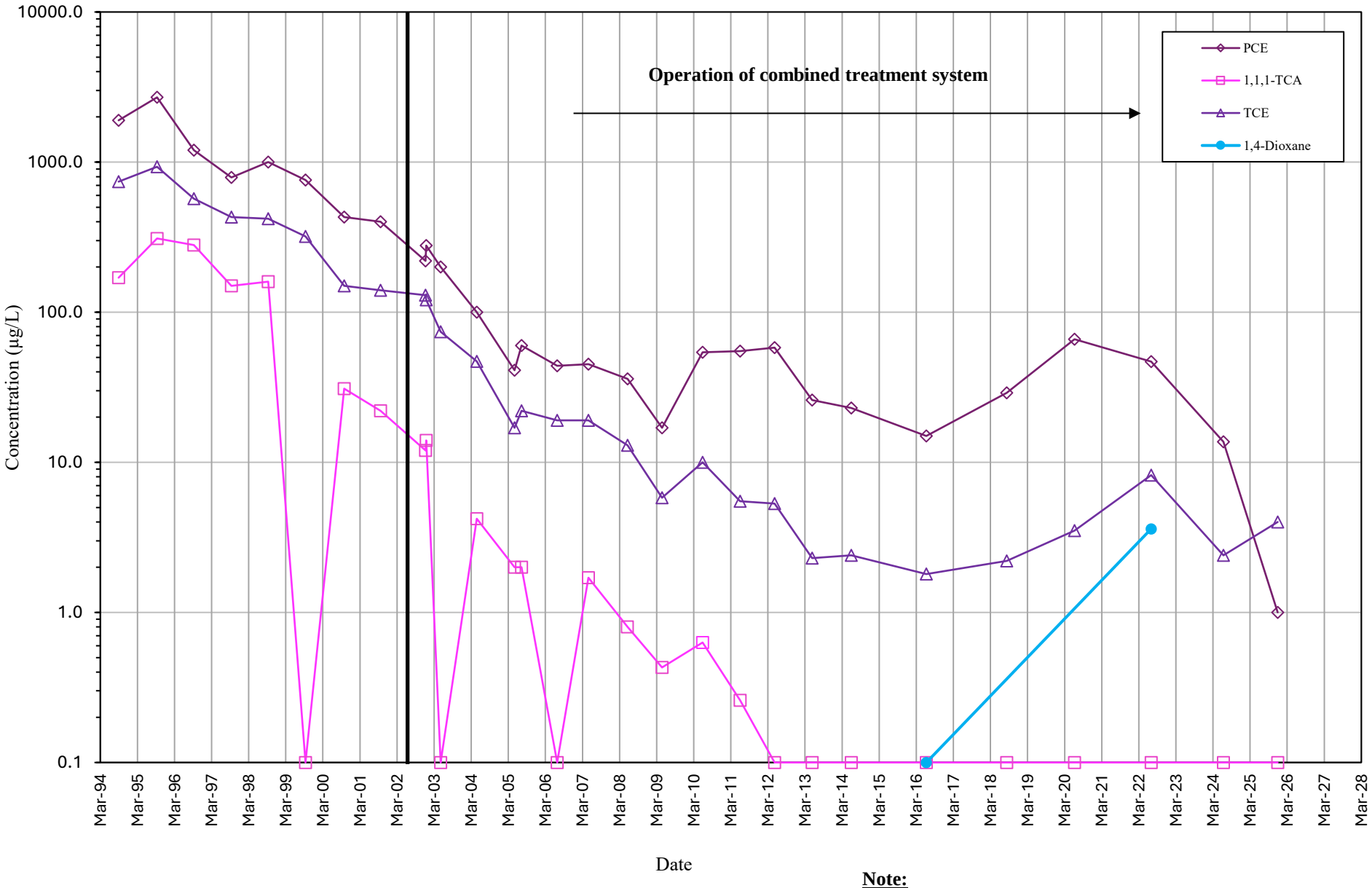
VOC Concentration at Deep Bedrock Monitoring Well MW-605

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 176.3
Bottom of screen elevation (NGVD) = 76.3



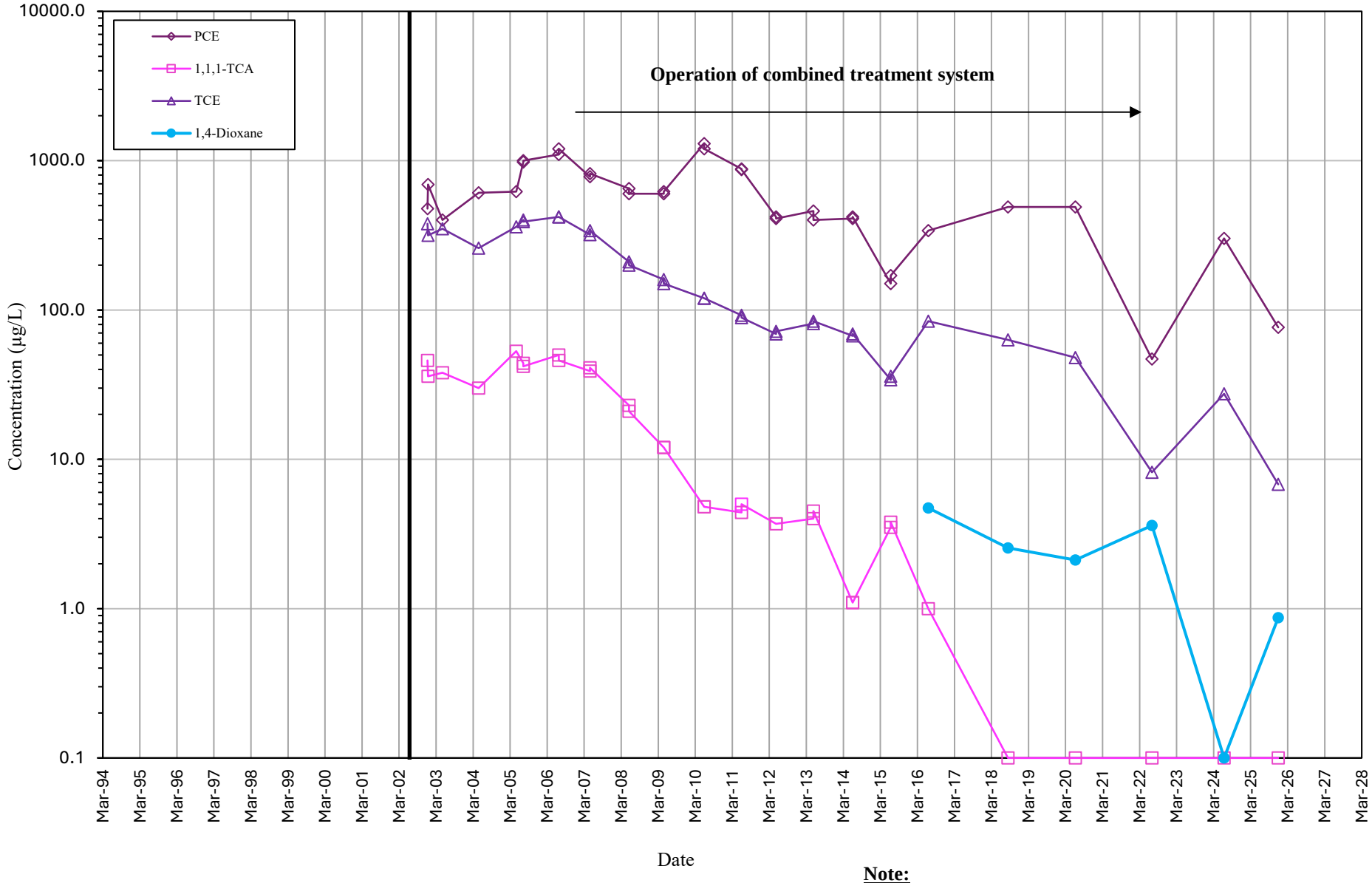
VOC Concentration at Bedrock Monitoring Well MW-202A

Note:
A concentration of 0.1 µg/L was assumed for non-detects.
Refer to Historic Water Quality Appendix for Reporting Limits.
Top of screen elevation (NGVD) = 120.2
Bottom of screen elevation (NGVD) = 110.2



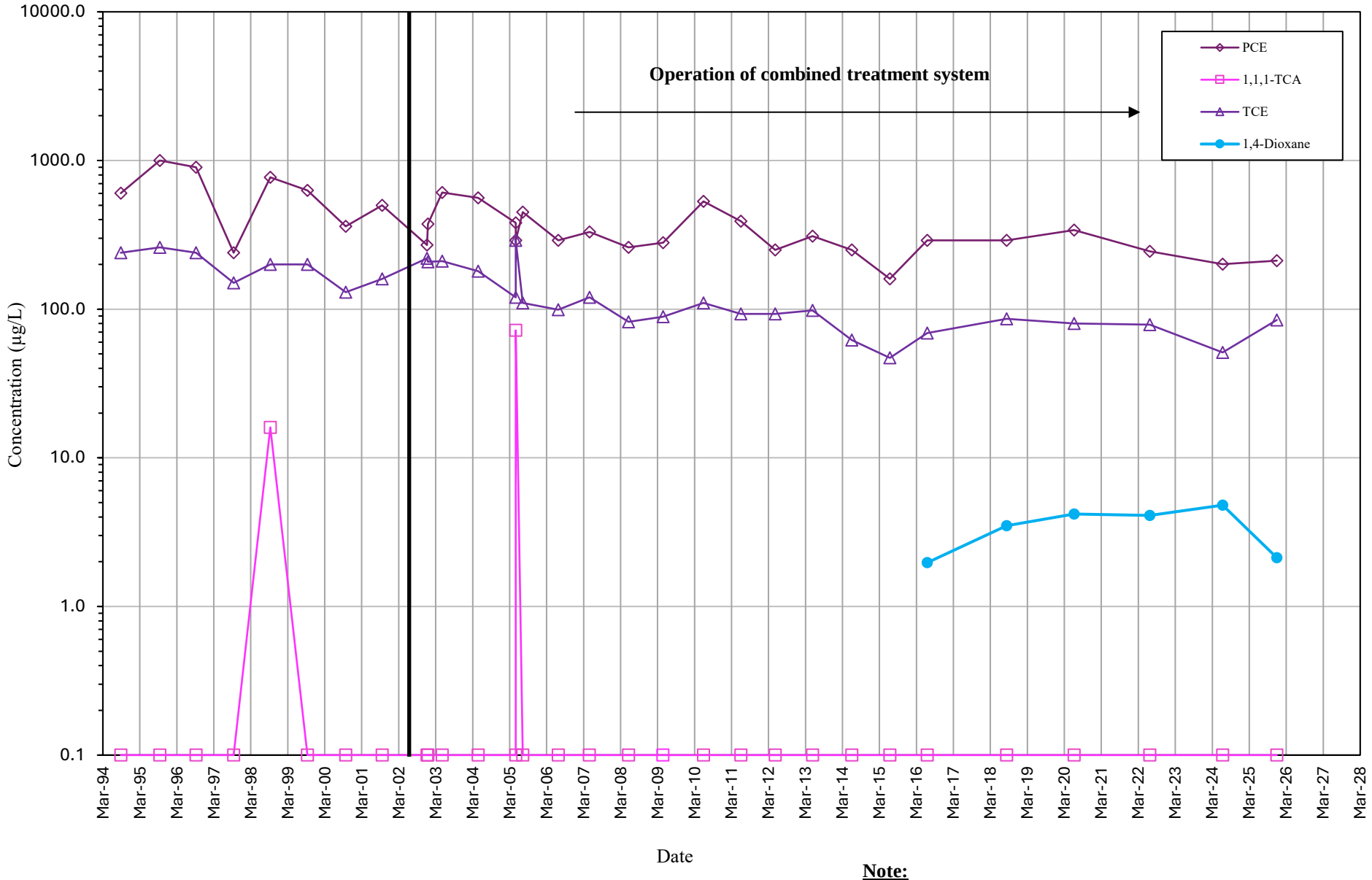
VOC Concentration at Bedrock Monitoring Well MW-202B

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 156.7
Bottom of screen elevation (NGVD) = 147.2



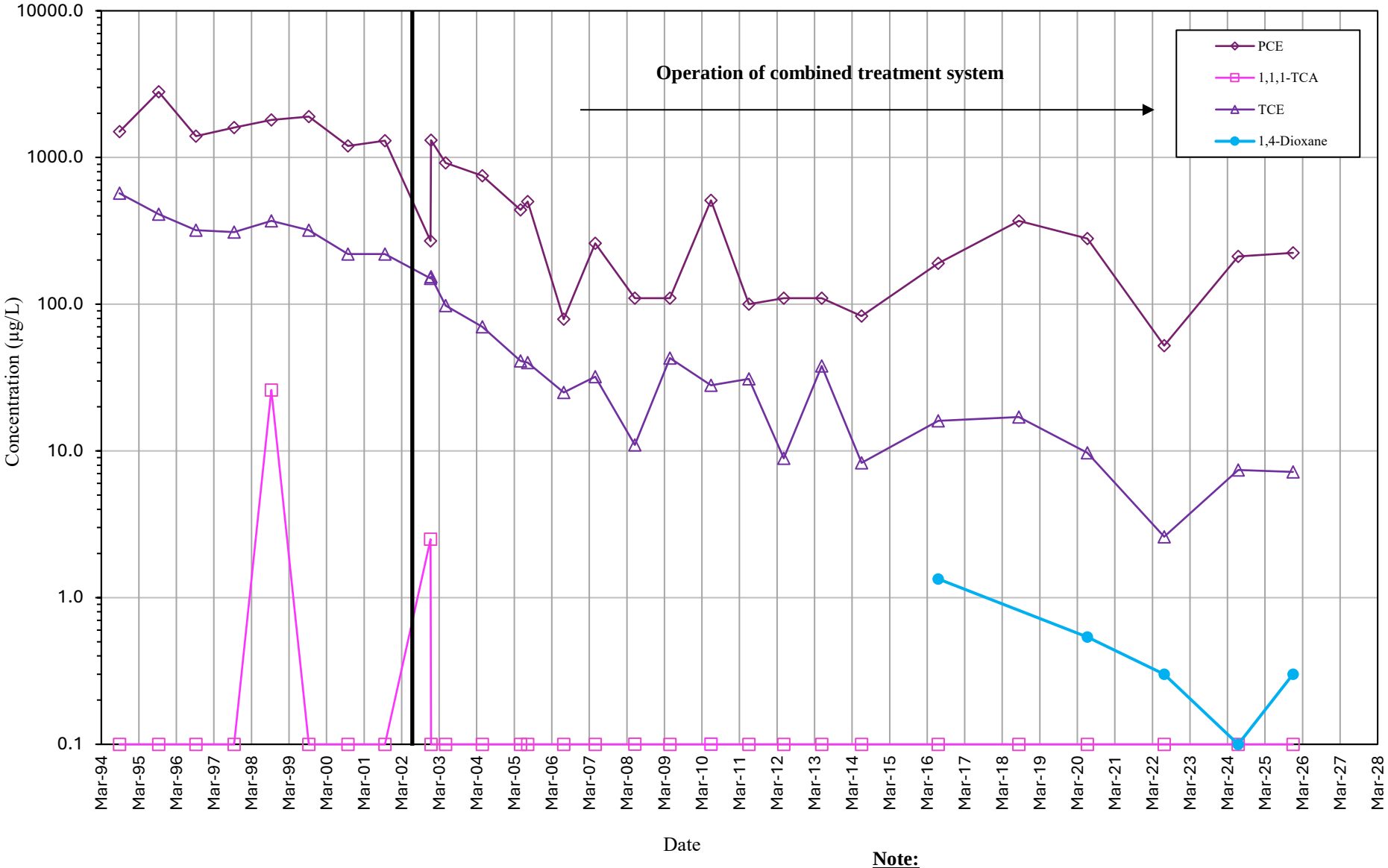
VOC Concentration at Bedrock Monitoring Well MW/EW-C

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 130.9
Bottom of screen elevation (NGVD) = 110.9



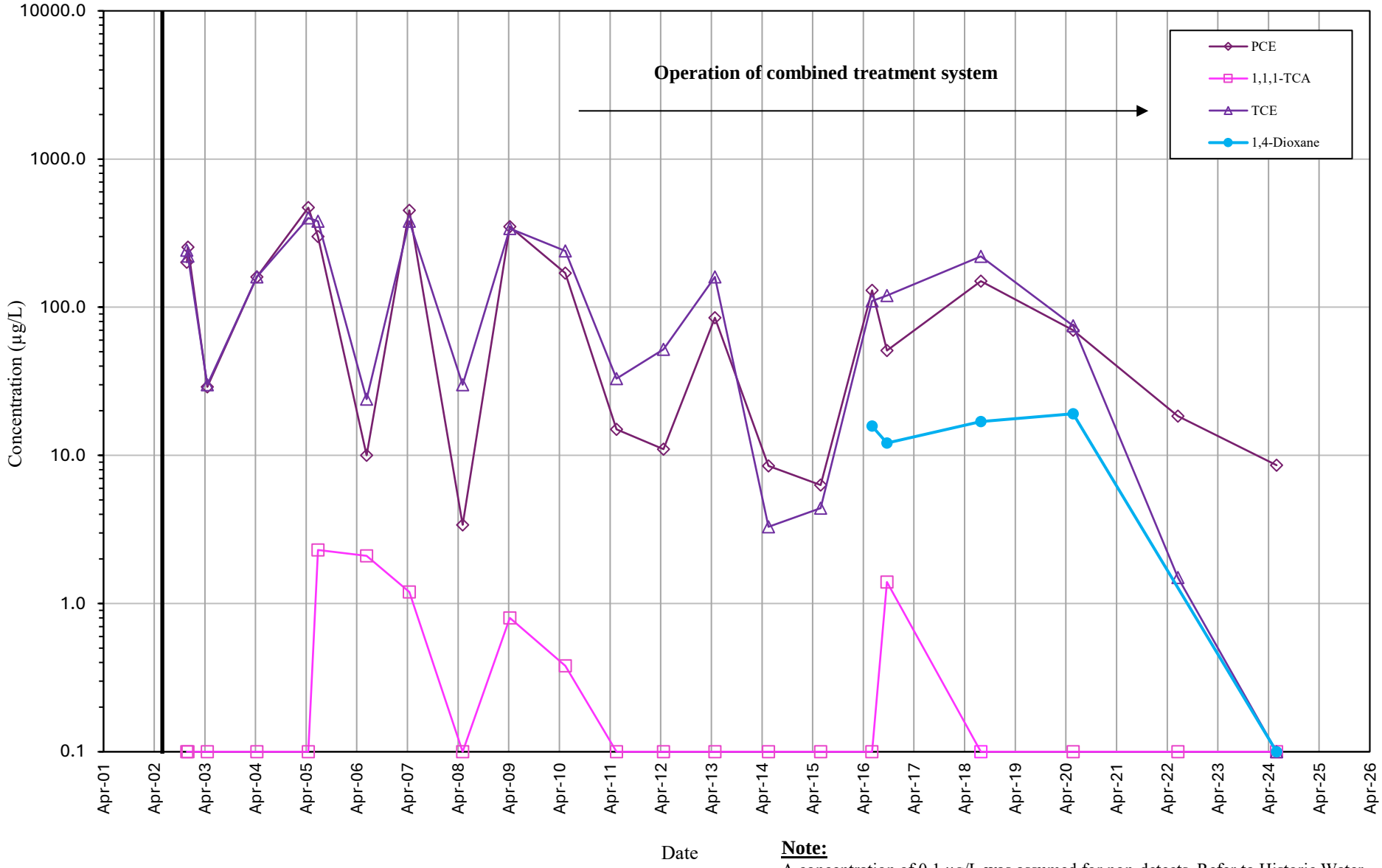
VOC Concentration at Bedrock Monitoring Well MW-201A

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 118.8
Bottom of screen elevation (NGVD) = 103.8



VOC Concentration at Bedrock Monitoring Well MW-201B

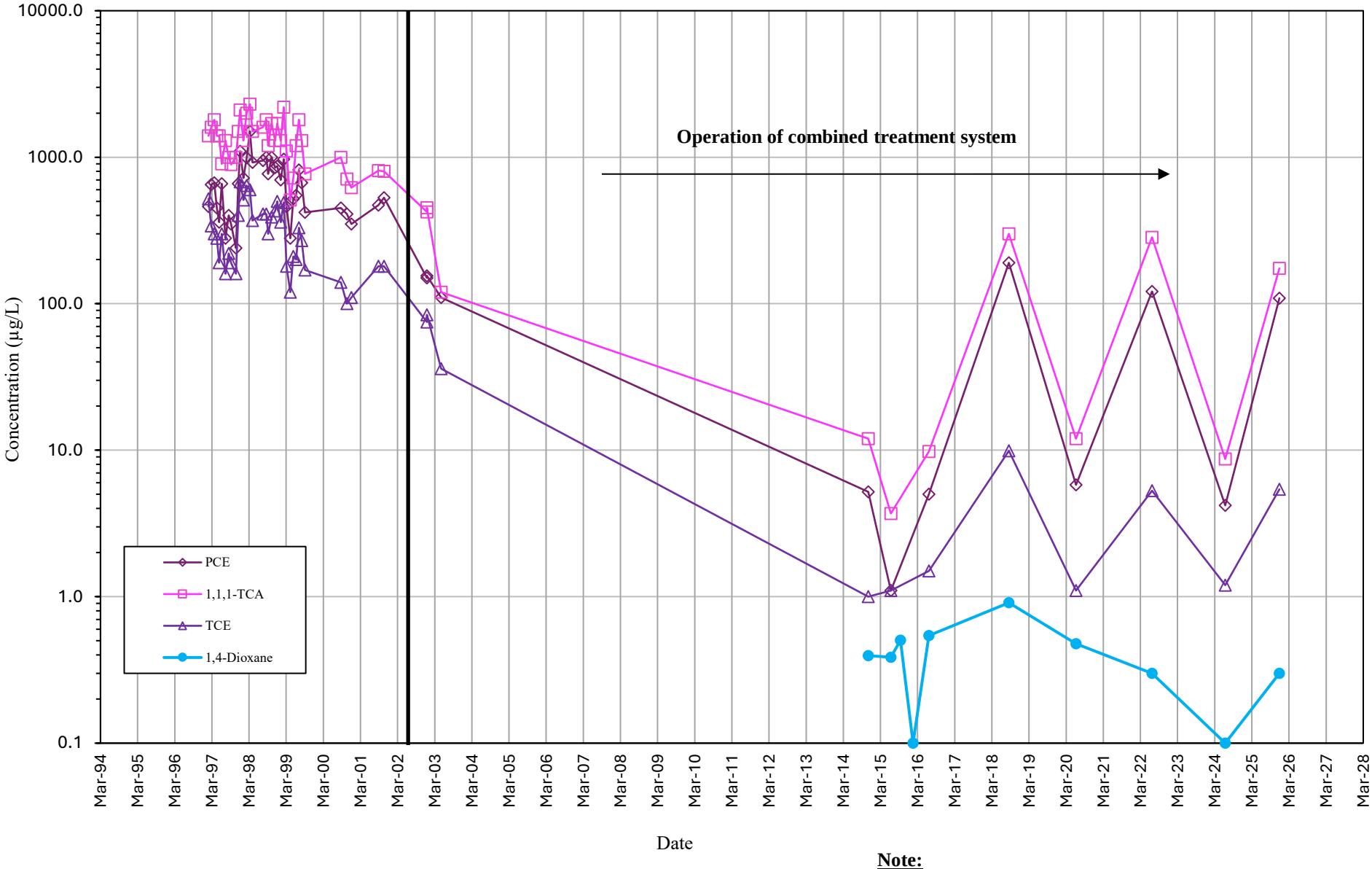
Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 153.8
Bottom of screen elevation (NGVD) = 143.8



VOC Concentration at Deep Bedrock Monitoring Well MW-602

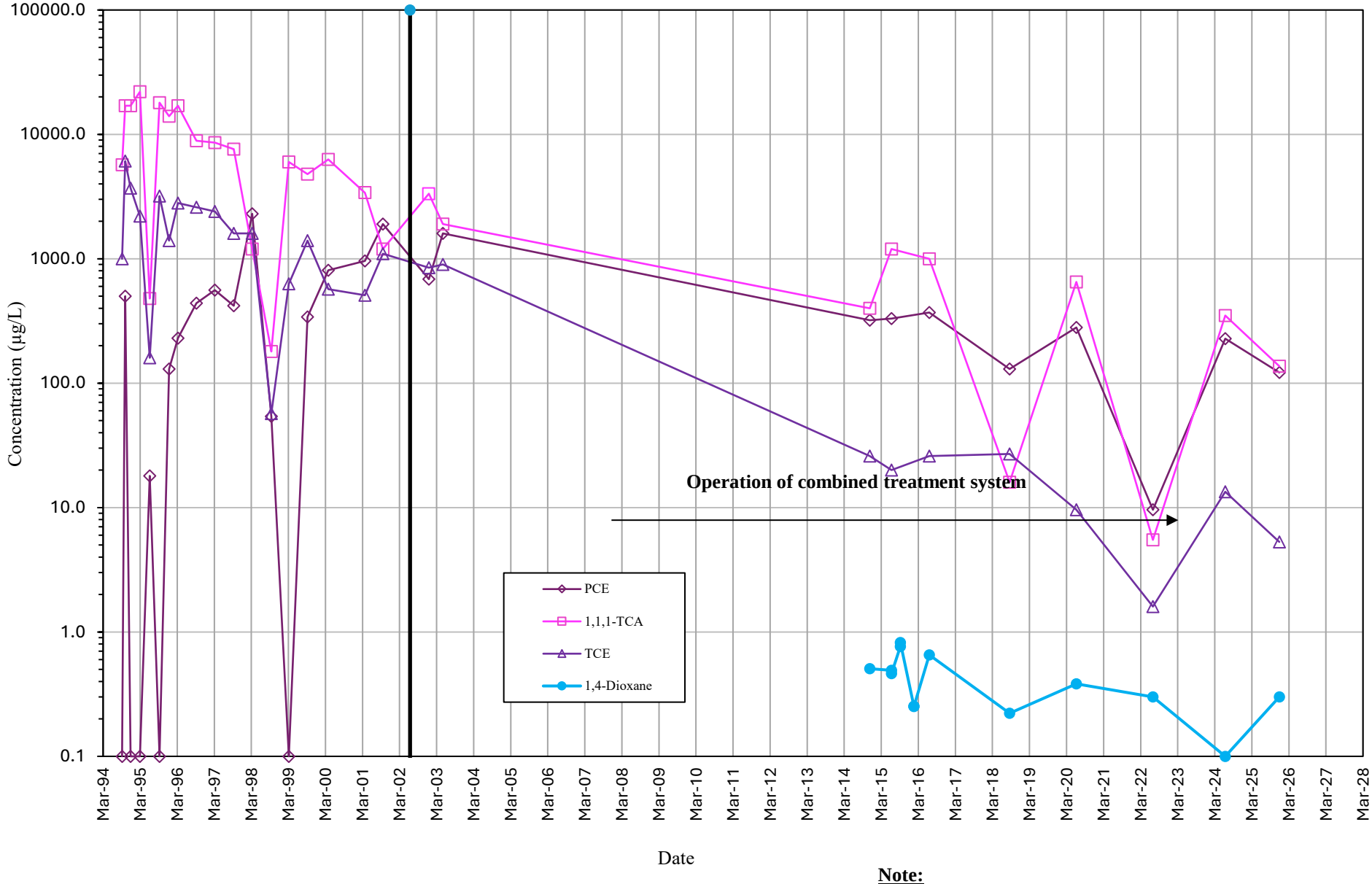
Note:

A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 121.8
Bottom of screen elevation (NGVD) = 91.8
2022 -Present samples were taken at GZ/DC-5D due to MW-602 being covered with fill material from site owner.



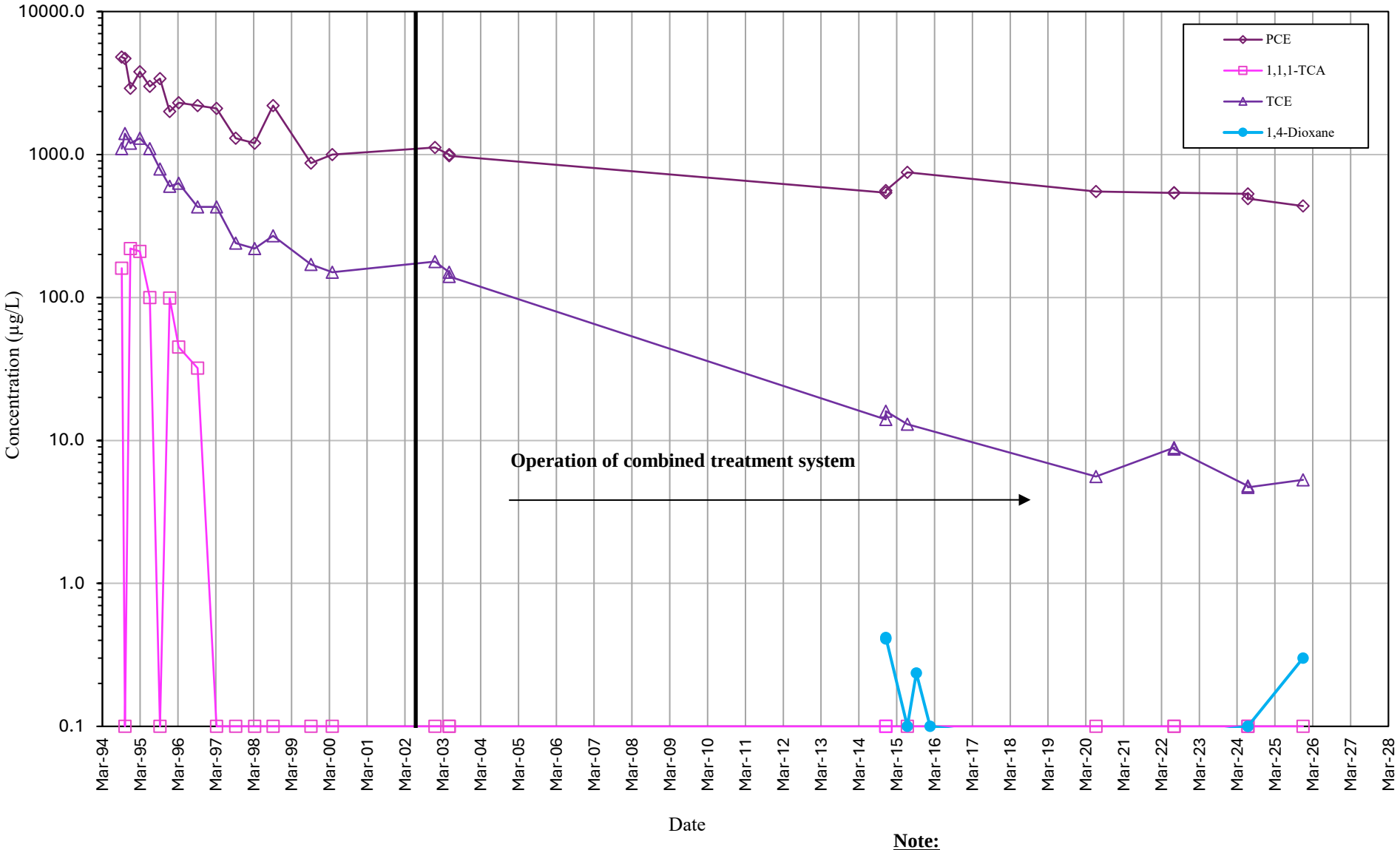
VOC Concentration at Deep Bedrock Extraction Well ERM-14R

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 165.7
Bottom of screen elevation (NGVD) = 125.7



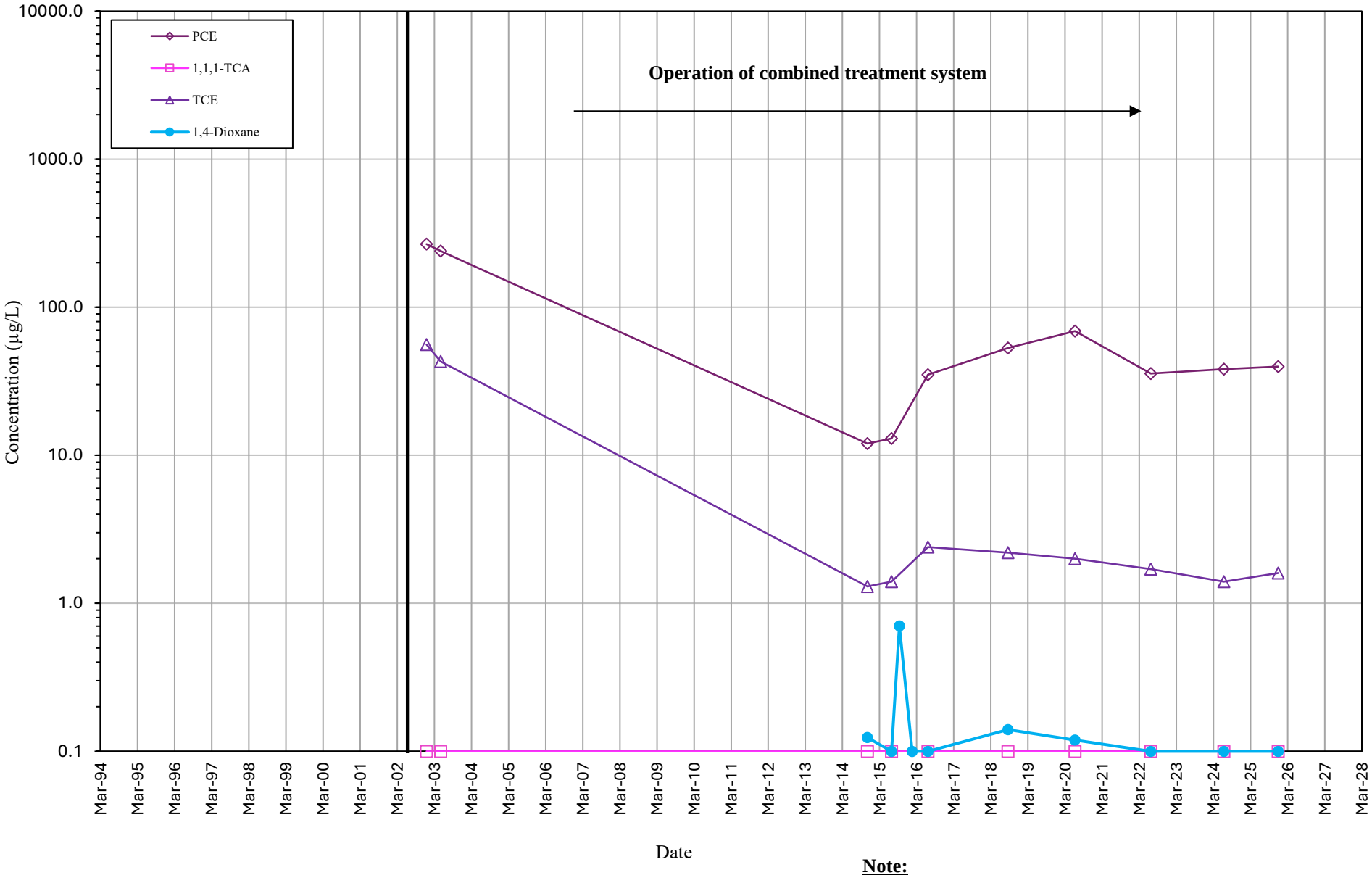
VOC Concentration at Bedrock Extraction Well JTB-402

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 188.8
Bottom of screen elevation (NGVD) = 118.2



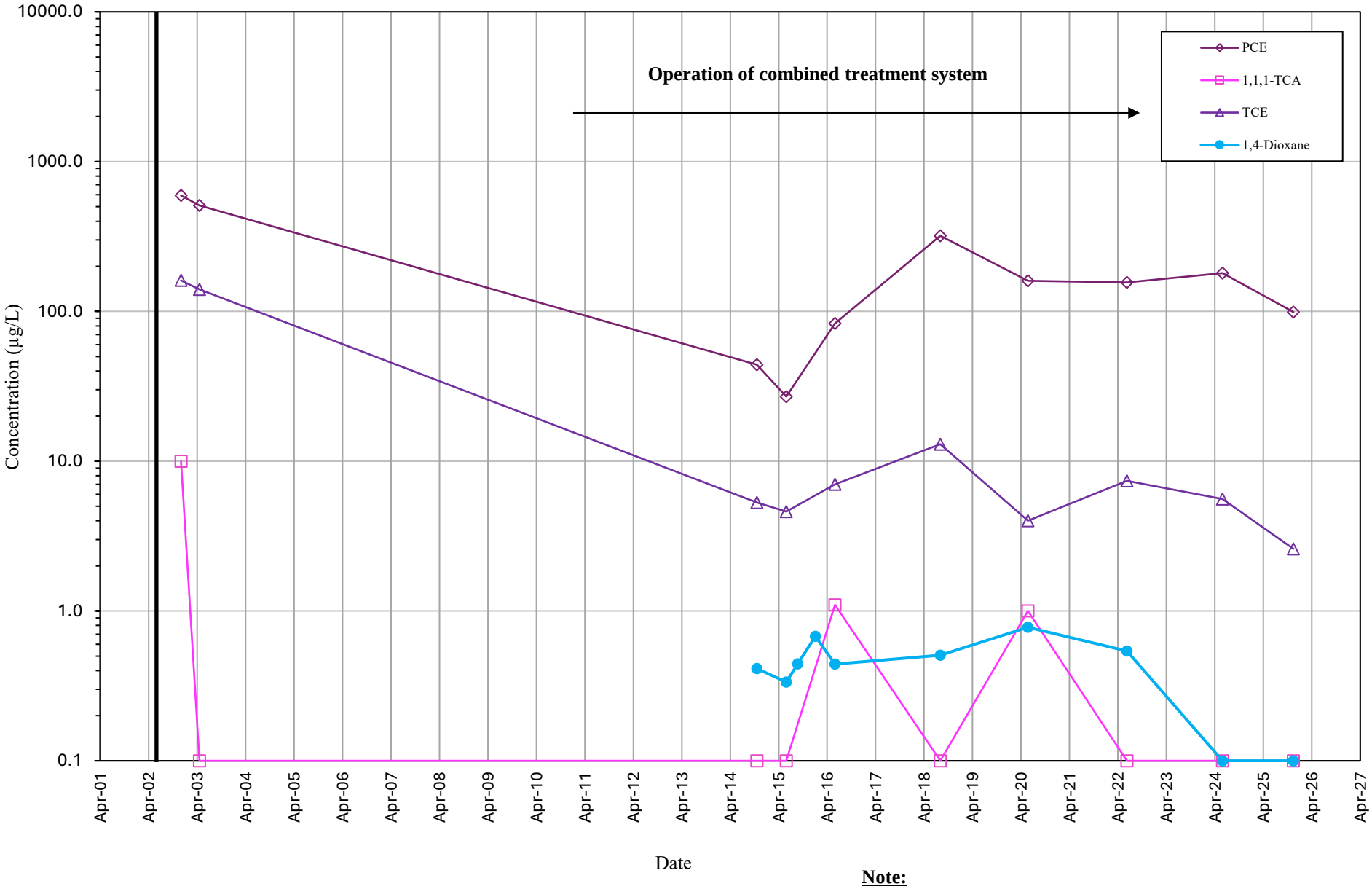
VOC Concentration at Bedrock Extraction Well JTB-404

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 170.6
Bottom of screen elevation (NGVD) = 107.5



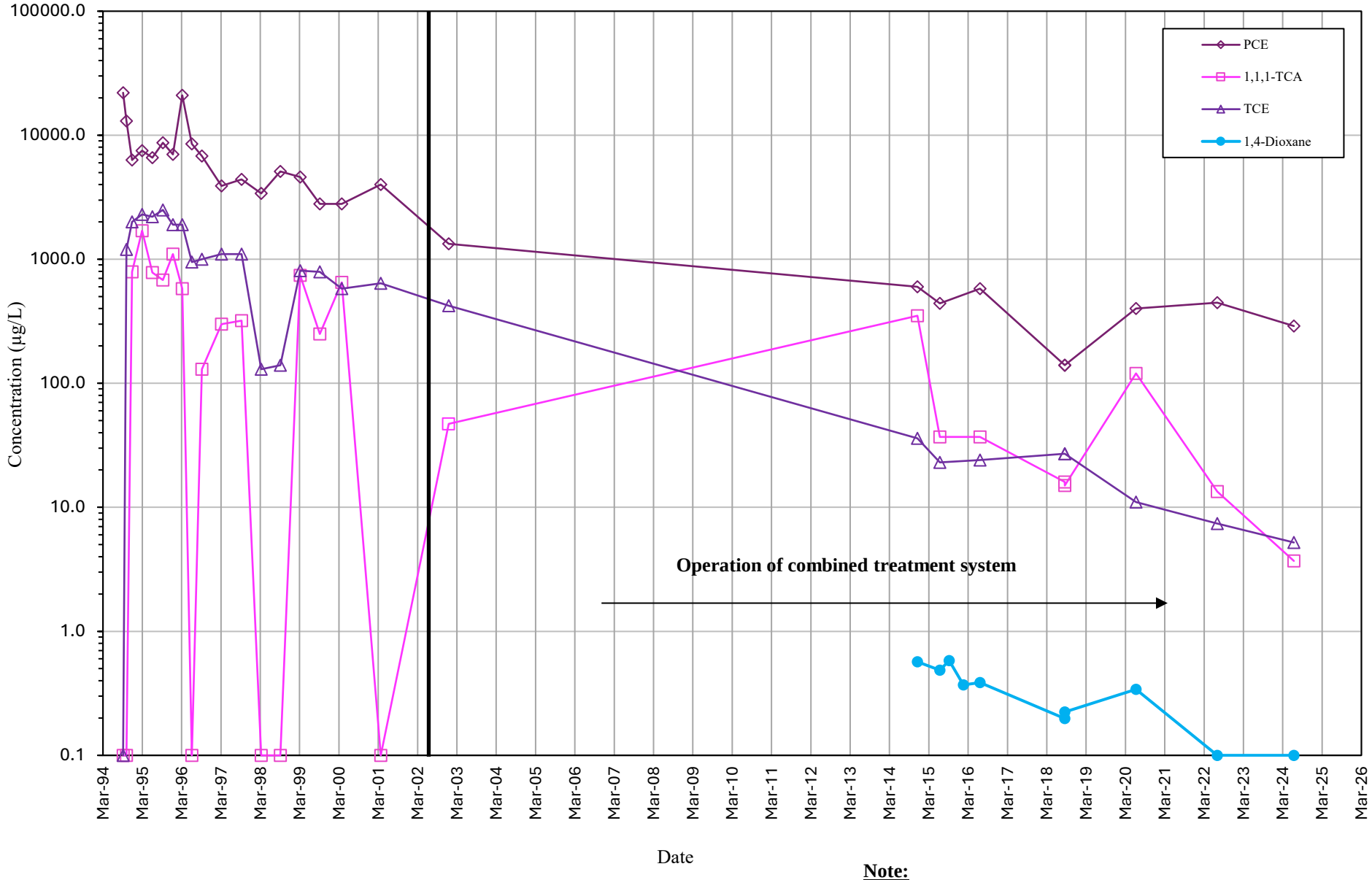
VOC Concentration at Bedrock Extraction Well MW/EW-N

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 135.6
Bottom of screen elevation (NGVD) = 95.6



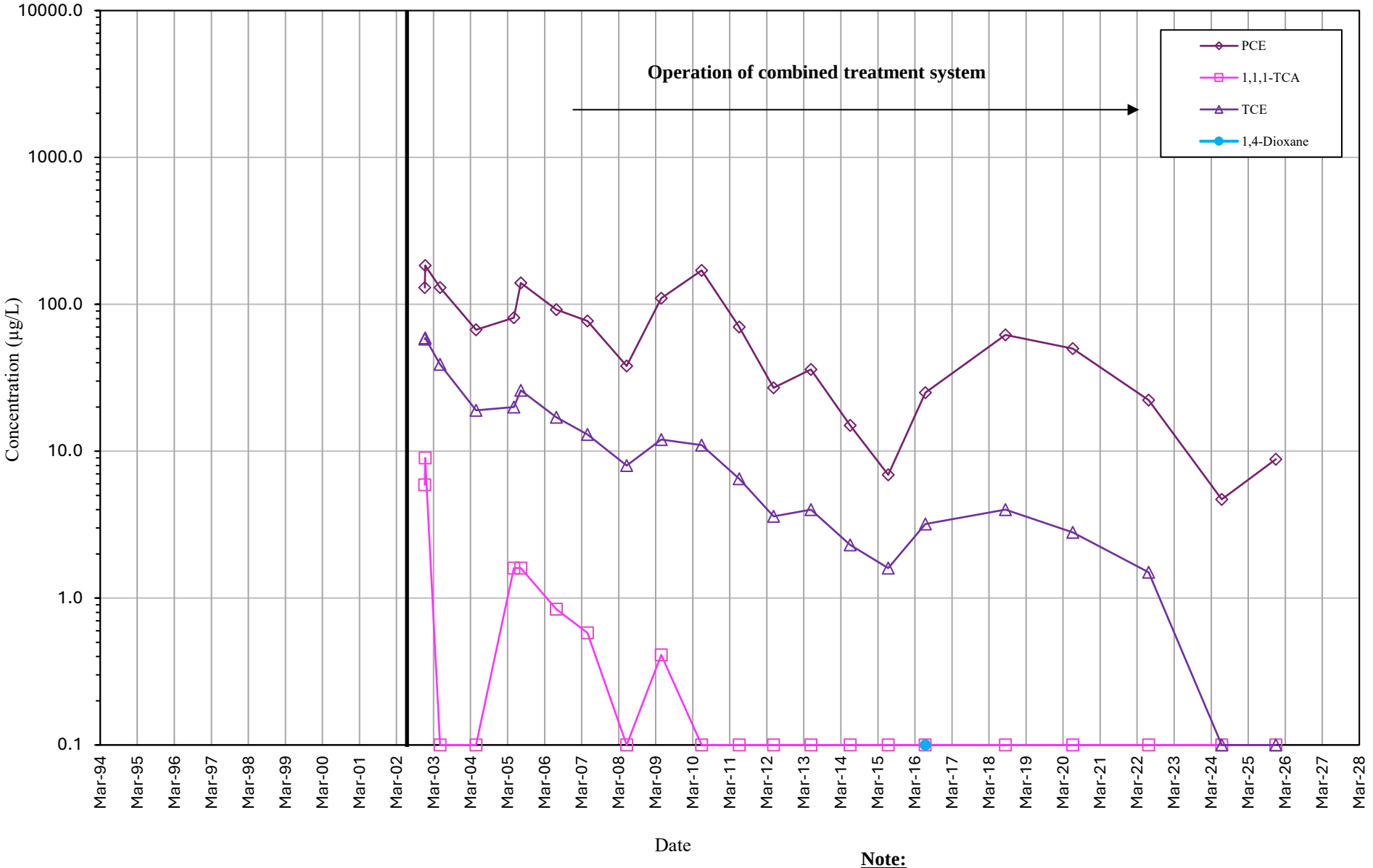
VOC Concentration at Deep Bedrock Monitoring Well MW-604

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 183.5
Bottom of screen elevation (NGVD) = 79.5



VOC Concentration at Bedrock Extraction Well PW-503

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 191.6
Bottom of screen elevation (NGVD) = 114.6



VOC Concentration at Deep Bedrock Monitoring Well MW-603

Note:
A concentration of 0.1 µg/L was assumed for non-detects. Refer to Historic Water Quality Appendix for Reporting Limits. Top of screen elevation (NGVD) = 151.9
Bottom of screen elevation (NGVD) = 131.9